lier Je	ette	ette	ette	ette	ette	ette	itt	
Supplier Name	Acier Ouelle Inc.	Acier Ouelle Inc.	Acier Ouelle Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	
Total	\$611.48 Acier Ouellette	\$143.24 Acier Ouellette Inc.	\$174.69 Acier Ouellette Inc.	\$82.00 Acier Ouell Inc.	\$497.20	\$132.59 Acier Ouelli Inc.	899.70 Acier Ouell Inc.	
Past Due								
Aging Days	7	7	7	7	7	7	2	
Price/Unit Days	\$ 4.65 / ft	\$ 71.62 / ft	\$ 29.12 / ft	\$ 20.50 / ft	\$ 15.54 / sf	8 4.14 / sf	\$ 4.99 / #	
Recaive Date	7/31/2018	7/31/2018	7/31/2018 \$ 29.12 / ft	7/31/2018 \$ 20.50 / ft	7/31/2018	7/31/2018 \$ 4.14 / sf	7/31/2018	
Status	Stock	Stock	Stock	Stock	Stock	Stock	Stock	
Container	S098038	S098040	S098041	S098042	8098678	S099478	S098043	
Received Accounting Container Quantity Job No No								
Received / Quantity	132	7	Φ	4	32	32	20	
Due Date	120 7/31/2018							
Order Qty	120	0	9	4	32		50	
Equipment Order ID Qty					1			
For Part Project No								
For Part No								
Description	A513 Seamless Alloy Steel Round Tubing 0.75"dia. x 0.085" Wall	M1018R4.000: MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft	M1018R2.750: MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108	303 Round Bar 2.5"": MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	304/316 0.125 Sheet: MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	5052-H32. 040 Sheet: MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS-Q16-OR ASTM B209 receive sf	6061-T6 Round Bar 1.250 : MATERIAL: 6061- T6TG51/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-4-225/8 OR AMS-QQ-4-225/8 OR AMS-QQ-6-225/8 OR AMS-QQ-6-2-225/8 OR AMS-QQ-6-2-25/8 OR AMS-QQ-6-2-2-25/8 OR AMS-QQ-6-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	
Purchased Item		M1018R4.000 M M 1.0 M M M M	M1018R2.750 M 10 10 M M M		M304S11GA 30 MM	M5052H32S.040 50 MV AL PP AN AN AN AN AN AN	M606116R1.250 600 T	
erms	1 Net 30	J	Stor.	-	-	2	2	
Rel No								
Line Item No		∞	6	10	F	12	<u>~</u>	
Supplier Item No No	P0040517 ACI001-VC						I	
PO No	P0040517							

Print

8/7/2018

Supplier Name	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	
Total	\$68.64	\$166.06	\$25.76	\$82.96	\$125.79	
Past Due						
Aging Days	2	7	7		2	
Receive Price/Unit	\$3.12/ft	\$8.30/ft	\$ 1.29 / #	\$4.15/ft	\$ 6.29/11	
Receive Date	7/31/2018	7/31/20 :8	7/31/2018	7/31/2018	7/31/2018 §	-
Status	Stock	Stock	Stock	Stock	Stock	
Container	S098044	5098045	8098046	S098047	S098048	
Received Accounting Container Quantity Job No No						
Received / Quantity	22	20	20	20	20	
Due Date						
Order Qty	24	20				
Equipment Order ID Qty						
Project						
For Part No		2				
Description	1144 Steel Proof Round Bar 0.750": MATERIAL: AISI 1144 STRESSPROOF STEEL ROUND BAR ASTM A311 or UNS G11440	6061-T6 Bar 1,00 X 2.00: MATERIAL. 6061- TA/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS A117/4128/4115/4116 OR QQ-A-2008 OR AMS 4160 QQ-A-2008 OR AMS 4160 OR ASTIM B211 I OR ASTIM B212 I receive ft	6061T6 Bar .375 X .750: MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QCA-A-25/8 OR AMS 4-25/8 OR AMS 4-25/8 OR AMS 4-20/8 OR AMS-400 OCA-200/8 OR AMS-410 OCA-200/8 O	6061-T6 Bar .500 X 2.00: MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINIM BAR PER QQ-A-225/8 OR AMS-QQ- 4-25/8 OR AMS-QQ- 4-200/8 OR AMS-QQ- A-200/8 OR AMS-QQ- CQ-A-200/8 OR AMS-QQ- A-200/8 OR A-200/8 OR AMS-QQ- A-200/8 OR A-200/8 OR AMS-QQ- A-200/8 OR A-200/8 OR A-200/8 OR A-200/8 OR A-200/8 OR A	6061-T6 Bar. 750 X 2.00: MATERIAL: 6061- T6/T651/T6510/T651/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-226/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 B211 OR ASTIM B221 receive ft ASTIM B221 receive ft	
Purchased Item	MT-1144-R0.750	0	M6061T6B0.375X0.750	M6061T6B0.500X02.000 6061-T6 Bar .500 X 2.00 :	M6061T6B0.750X02.000 6061-T6 Bar.750 X 2.00 :	
Terms						
S &	4	25	91	7	- ω	
Supplier Item		-			2	
PO No Su				1		

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8/7/2018

				_
Supplier Name	Acier Ouellette Inc.	\$816.67 Acier Ouellette Inc.	Acier Ouellette Inc.	
Total	\$216.52 Acier	\$816.67	\$2,793.00 Acier Ouell Inc.	\$4,655.12
Past Due				
Aging Days	2	7		
Price/Unit	\$ 18.04/ft	\$ 8.51 / sf	\$ 9.70 / sf	
Receive Date	Stock 7/31/2018 \$ 18.04 / ft	Stock 7/31/2018 \$ 8.51 / sf	7/31/2018	
Status	Stock	Stock	Stock	
Container No	S098049	8099479	S099480	
Received Accounting Container Status Receive Price/Unit Aging Past Quantity Job No No Date Date				
Received	15	96	288	726
Due Date				
Order	12	144	96	572
Project Equipment Order ID Qty				Total:
Project				-
For Part No				
Description	M6061T6B3.000X01.500 6061-T6 Bar 3.00 X 1.50: MATERIAL: 6061- T6/T651/T651/T651/T651/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS 417/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/	6061-T6 .040 Sheet: MATERIAL. 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-4026 OR AMS 4027 OR ASTM B209 receive sf	6061-T6 .080 Sheet: MATERIAL. 6061-T6/T62 ALUMINUM SHEET AS PER QCA-A-250/11 OR AMS-402A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	
Purchased Item	I6061T6B3.000X01.500	M6061T6S.040	M6061T6S.080	
Terms	1			
Rel No	61			
r Item No	-	20	22	
PO No Supplier Item No No No No				
PO No				
-	The second secon			

Plex 8/7/2018 11:09 AM dart. Tollis. Andrew

ACIER OUELLETTE INC. 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) 16S 5L.1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00100897

Billed to	Shipped to		Customer N°	CLI0001056	
DART AEROSPACE LTD	DART AEROSPACE LTD		Date	2018/07/18	
1270, ABERDEEN ST.	į		Delivery date	2018/07/31	
HAWKESBOKY, URIGINO, KBA IK/	, Ontario,		Processed by	Eric Kaehlert	
	Att: CHANTAL LAVOIE	E Tél.: 613-632-5200	Salesman		
Instruction F-M	Delivery Route	S	Carrier Credit Terme	OUELLETTE VALLEYFIELD Net 30 Days	O.
			PCS NB	Internal Use Only	nly
Product Description	Weight	MO AND	CMD EXP B/0	IN I S C	TUO
1 TUBE MEC 0.750 OD X .083 NS	70.92	120.00 PI_\$PI	101		
* CERTIFI			320		
LINE# 2 HEAT: (15C1477) HEAT: @372490) M			37313		
AC18287-MM-2018-07-23			1		
2 PLATE 44W 3/16 RANDOM P44-316-V 4105	122.40	16.00 PI2_\$CLB			The state of the s
SHEAR CUT		1.00 UN	J. F.		
1 X 4′ X 4′ ** CERTIFICATE **				7	
HT# A8D110 / B8E587					
LINE# 4					
3 ROUND CR 4 1018 (R) PCP-4 F344	85.44	2.00 PI_\$CLB			
TO		1.00 UN	Et		
1 X 2' ** CEK 11F1CA 1E **					
HT#(142769)					
LINE# 8					

DELIVERY - CLIENT

Product Description	Oţo	Weight	PCS NB	Internal Use Only	
			CMD EXP B/0	IN I S C	TUO
CR 2 3/4 10	121.14	6.00 PI_\$CLB		┿	
KCK-234 TRANSFERT ST-JEROME 30-07			7		
SAW CUT		1 00			
1 X 6' ** CERTIFICATE **	-		9		
HT#(139335) M. 1 30 07					
LINE# 9					
5 ROUND SS 2 1/2 303 NS	92.99	4.00 PI			
RSS-212303 11420 1 X 4' ** CERTIFICATE **					
1) manual			7		
HI# (45.264) H			-		
LINE# 10					
ac18302-th-2018-07-23					
6 SHEET SS 11G SS304-28 (4 x 8)	169 00				
	00:001	32.00 P12_\$CLB			
PALLET		1.00 UN			
1 X 4' X 8' ** CERTIFICATE **			(ex. 1		
HT# 648C) M			<u> </u>		
LINE# 11		-	ore i mande den manet en manderskend genede se insken den storistend min ekstellen en in, mantenatura indocenden et storist	to Desirable Containing to the Colomby of the Colom	Appendique Appendique de la manuel de
FEAL-040485052 3124	18.02	32.00 PI2_\$CLB			
SIDE					
			XI		
HT# GFB1803W5009Z) DA			1		
LINE# 12					
AC-18288-RY-2018-07-23			-		
8 ROUND ALU 1 1/4 6061-T6 *	28.82	9104 10 00 00			
RAL-114 5121	1				
1 X 20' ** CERTIFICATE **			900		
			5		

DELIVERY - CLIENT

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Product Description	č	Woight	PCS NB	3	I	Internal Use Only	se Only	
	33		CMD EXP	B/0	NI	I S	၁	OUT
LINE# 13								
9 FLAT ALU 1 X 2 6061-T6 *	48.00	20.00 PI \$CLB	(
FAL-12 2497							_	
1 X 20' ** CERTIFICATE **			2					
/ INF# 15	10.							
Heat (SXF171892)			>					
10 FLAT ALU 3/8 X 3/4 6061-T6 *	6.62	20.00 PI \$CLB		1/2				
FAL-3834 2620			\	_				
1 X 20' ** CERTIFICATE **								
			5	_			-	
LINE# 16 HEAT : (HK147-197))					
11 FLAT ALU 1/2 X 2 6061-T6 *	23.98	20.00 PI \$CLB	<u> </u>		A STATE OF THE STA		And the state of t	The second state of the second
FAL-122 2481			_	_				
1 X 20' ** CERTIFICATE **			\$					
			8					
LINE# 17 HEAT : (SXE180043))					
12 FLAT ALU 3/4 X 2 6061-T6 *	36.36	20.00 PI \$CLB	7		and the second control of the second control			Mary Stands - Landers April - Land - Topic
FAL-342 2592			_					
1 X 20' ** CERTIFICATE **			1					
V 0+ 7-1/41	*****		3					
LINE# 18 HEAT : (CN1714144)								
13 FLAT ALU 1 1/2 X 3 6061-T6 *	63.50	12.00 PI \$CLB)					
FAL-1123 2445								
1 X 12' ** CERTIFICATE **	*** (_				
LINE# 19			>					
HEAT (SXE180264) AT			/				11.11	
14 ALU SHEET .040 (18G) 6061-T6 RANDOM	54.05	96.00 PI2_\$CLB						-
FEAL-0406061-V 3131 2 X 4' X 12' PVC 1 SIDE ** CERTIFICATE **						•		
		330						
HEAT: (D260494) M	1	3						
OC #3/W1	_	7						

DELIVERY - CLIENT

गानिता नगान

	/			J	CO00100897
Product Description	Otv Weight	PCS NB	I	Internal Use Only	
	meigin.	CMD EXP B/0	NI	I S C	OUT
AC18289-5A-2018-07-26	^	\			
15 ALU SHEET .081 (12G) 6061-T6 RANDOM	328.61 288.00 PIZ \$CIB	-0	_		
FEAL-0816061-V 3205	\	0/19			
6 X 4' X 12' PVC 1 SIDE ** CERTIFICATE **	\	1	_		
#107)	<u></u>			
HEAT: (0358925)					
HEALT COLLEGE)			
LINE# 21					
AC18289-54-2018-07-26					
16 ROUND STRESSPROOF 3/4 (R)	30.00 30.00 BI 6CI B	The second secon			The second on the second of th
RST-34 5815	00.07				
1 X 20' ** CERTIFICATE **		-			
A STATE STATE		8			
\neg					
LINE# 14					
Conditions :	Total Weight (Lbs): 1 272.62	NIR: R-109516-6			
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due announts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made with his document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.	s made in full, complete and cashed. All lost materials are at the buyer's exy anty is transferred by "Acter Duellette Inc." to the client. The buyer hereby tion charges of 2% per month (24% per annum) on all past due announts on his choice to claim for the balance due or the repossession of the goods soli, cut or modified cannot be returned. All goods returned must be with our a	ense. The warranty offered by accepts to respect the ver 30 days. Any default in 1. All claims must be made uthorization and are subject to			
Prepared By : Delivered By : Time		Δ			
	Customer's Sinnature				
	custoffici s alguature	Date			

Line Item Note 1 pcs of 40" x 40"

1

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3

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Line Item

Line Item Note 1 pcs of 4 ft x 4 ft

003.0-2-0414-TM

MT-4140-B-0.500X4.000

MT-4140-B-2.000X4.000

AD9-S-SAH-TM

PURCHASE ORDER 715040517

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88,268\$ 12\81\24.08\$ 12 11

#/10.15\$

\$82,5425/ft

\$7.36625/sf

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\$330.17

38.711\$

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11 1

18 9F

124/18 11.111 sf

7124/18

81/18/7

7124/18

Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON Ganada



00.364\$	¥/06°0↓\$	# 0 +	110	¥ 0Þ	81/15/7		Firmed	Sta Seamless Alloy Steel Round Tubing Sta		-1-513 830.0W		The state of the s	
	#\59.4\$	120#	45.151	120 ft	81/24/18	-	Pirmed	Sta Seamless Alloy Steel Round Tubing Steel Rounx x 818 Steel Rounx X 818		-T-812. 380.0W(1
08.127\$	#/0£.021\$	# 9	но	¥9	81/42/7	-	Pirmed	8 3 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING		-T-1513 0W0.125			
Extended Price	Unit Price (CAD)	Balance	Received Quantity		Date	Account	Status	Description	Supplier Part No	hsq		dol	
							su	ıətl					
			1926110		Groun Net 3(Terms:	Via: Pymt Ter Freight 7 Special 6			Lyoue: 613-632-55 Wek 1K7 Canada Hawkespury 1270 Aberdeen St	:оТ	didS	
		des Cas		81		e: e Order n:	PO No: PO Date Due Date Purchas Revision Revision Ship-To		9.7 9.7 9.7	ACI001-VC Acier Ouellette Inc 935 Boul, Du Havi Valleyfield AC AC AC Fax: 450 377 5696	lier:	ddng	
								(613) 632-5200	lθT				

Firmed -

- bemni7

Firmed -

- bemni7

36£8 2MA ,6S8A MT2A

MAXIMUM ROCKWELL C

MINIMUM ROCKWELL C SHEET OR PLATE SHEET OR PLATE

MAXIMUM ROCKWELL C

HINIMUM ROCKMELL C 6329, MIL-S-5626 BAR ASTM A29, AMS PER ASTM A29, AMS PER ASTM ATO 1440 STEEL BAR

4140 Steel Bar 0.500 X

Hot Rolled Steel Sheet 6

AISI 4140 Steel Sheet

= 35 Kc

= 28 Rc

= 32 RC receive ft

= 58 BC

4.000

Steel Bar

Gauge 0.1943"

### (MOA) 9-314 John Mode Mode		oie.chantal	очеі.ћер М	18 15:53 PI	Plex 7/18/								3
MICHERAL SO					70 F	81/42/7		Pirmed	- 1646.1 (- 6661- - 1646.1 (- 6541) 1621 (- 66511) 1621 (- 6521) 1621 (- 6651) 1621 (- 6651) 1631 (M SI
Ban Color Bank Date						i					11 51 10	S DCS	etoM met
### (GAX) and consisted withmento (Minneuto) asted for most consistence of the consistenc	B. <i>Þ</i> 7\$				1	81/15/7	_	Firmed	Bar 0.750" : MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAB SUU 30 11 EA MTSA		027.0A-4411-TM		1
Section Sect	<u>′</u> '66\$			1	1	81/42/18		Pirmed	- KORALERINE. 6061- 537/153107651776517765 16376767651076517765 1637676767676767676767676767676767676767		025.1A9T1909M		JA SI
State Stat						81/42/1	_	Firmed	. MATERIAL: 5052-H32 2A T3918 MUIMULA AO 8062-A-000 A39 AO 8052-A-000-8MA MT8A AO 6104 SMA		WE052H328.040		JA / ZI
M1018R4.000 M1018R2.004				1		81/52/1		Firmed	: MATERIAL: AISI 304/316 SS SHEET ANNEALED SS PER MIL-S-5059 OR STS 513 (304) OR AMS S524 (316) OR SS		M304S118A		#
Part					/				: MATERIAL: AISI 303 SS ROUND BAR AS PER NOTE:304/316 NOT ACCEPTABLE			A common property of the common commo	4
10b					1	81/24/18		Firmed	9A8 GNUOR 3501 939 SA A30320101M MT2A 9O 7607-8-JNN 801A	A commence of the control of the con	003.SR2.600	To the second se	01 H
	8102 8102	#\sə.r\\$	11 Z	15°C	2 # 8	81/02/1	-	Permid	M1018R4.000 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIC-S-7097 OR ASTM 108 108 108 108 108 108 108 108		M1018R4.000		/ 6 / 8
	Extenda Price		Balance	Received	Order Quantity	Date	JunoooA	Status	Description	Supplier Part No	Part	dot	hine meti

-6.010,0	A JUNIOL DUDIO						otes	M 19b1O				_
	AUG 0 2 201 \$:1610T bns13							7ER QQ-A-250/11 OR MS-QQ-A-250/11 OR MS 4025 OR AMS 4027 MR SATM B209 eceive st) 1 1			
00.867,2	\$ le\3316763.08	1s 88S	12885 12885	le 88S	81/24/18	<u>.</u>	- irmed -	9061-16 .080 Sheet MATERIAL: 6061-T6/T62 SA TEET BUMUMUL	:	080.23T1303M		12
	\$ 12\4446905.88	is 441	72.3P	is 441	81/42/18		- bemiFi	1990 Shoet 2010-1-1606 Sheet AS 2A TERIOM SHEET AS 2A TER ACALOM SHOOT AS 3D 1100 SA-A-DD-SMA 3D 1100 SA-A-DD-SMA 3D 100 SA) / / ! !	040.23T1803M	The second secon	OZ.
\$2.912\$	#\666640.812 BIOS S 0 9U/		11 8 /	H 21	81/42/1		- bəmri	7.5067-16 Bar 3.00 x 1.50 1.5008 - 1.5067-1. 1.507651/176571/1762 1.5076.51/10651/1762 1.5076.51/106 1.507		005.10X000.£83T1800M		4/61
<i>L</i> '971\$	#\2685.88	н os JA	130°	20 H	81/24/18		Firmed	0.5 X 027. 1848 07-1606 1847 1849 064. 6061. 185. 185. 185. 185. 185. 185. 185. 185.	, , , , , , , , , , , , , , , , , , ,	M6061T6B0.750X02.000		181
	11/841.42		H07	20 H	81/42/1		Firmed	00.5 × 00.5 × 0.00. 1840 -1-1000 -1-10-10-10-10-10-10-10-10-10-10-10-10-1		M6061T6B0.500X02.000		Ay
	л/885.1\$ 0S S 0 OUA	SO ft	17°C	20 H	81/42/1	-	Еігтед	037. X 376. 186 017300 - 1804. 184 314 18500 - 1804. 1804. 1805.		037.0X378.089T1909M		91
7.82\$					Date	fruossA						27.5

Order Notes

Procurement Quality Clauses

A012 chemical and physical test report A005 right of entry

A016 personnel qualification

A017 raw material identification (as applicable)

A041 quality management system A026 certification of material conformance

A043 retention of quality documents A042 dart notification by supplier

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

www.dartaerospace.com for further explanation. Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit

Plex 7/18/18 12:53 PM dart.lavoie.chantal

Pymt Terms:

Ship-To Contact:

Revision Date:

Purchase Order

Revision:

Due Date:

PO Date:

PO No:

:siV

Net 30

Ground

7124/18

81/171/7

PO040517

Lavoie, ChantalPhone: clavoie@dartaero.com

PURCHASE ORDER 712040517

Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada



ACI001-VC

Hawkespnry 1270 Aberdeen Street

Fax: 450 377 5696

J6S 5L1 Canada

935 Boul. Du Havre

Acier Ouellette Inc.

QC Valleyfield

Phone: 800 667 4248

Ship To:

Supplier:

Tel (613) 632-5200

8.711\$	\$2/35625/sf	te at	te 0	le at	81/4217		Firmed	Hot Rolled Steel Sheet 6		MT-HRS-S-6GA		Þ
c.+e4	Webee 74	N.O.		N. O.L.	01/67			Steel Round Tubing 9.75"dis. x 0.058" Wall 5. ASTM A513 TYPE 5 6.1020/1026) SEEL ROUND ALLOY STEEL ROUND TUBING (DOM)		8 2 0.0W027.0		
€.4€\$	£2.3595/ft	H 04	ЯO	₩ 0 1	81/42/7	-	Firmed					3
€.46\$	#\2956.2\$	₩ 0Þ	# O	₩ 04	81/42/7	-	Firmed			-T-E13A-TM		3
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\$25.3	#\6286.3\$	H Þ	# 0	H 4	81/24/18		Firmed -	4140 Steel Bar 0.500 X 4.000		000.4X003.0-8-0414-TM		9
		1						PER ASTM A29, AMS				
		į		Property Commence				6349, AMS 6382, AMS 6529, MIL-S-5626				
								= 58 BC WINIMUM ROCKWELL C		The second strongs		
								= 35 RC WAXIMUM ROCKWELL C				
3 6083	3-/81CAS 082	32 11	12.0	12 111 11	81/06/2	i	Firmed -	receive ft AISI 4140 Steel Sheet		002.0-2-0414-TM	1	L
9'768\$	\$\$\8124£.08\$	15.11	1e 0	is iii,ii	01/47/		- nauu i	SHEET OR PLATE				
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								= 32 Rc ASTM A829, AMS 6395				

Extende Price	finU (GAD) epirq	Balance	Received	Order Quantity	Date Date	Account	Status	Describtion	Supplier Part No	Part	dot	Line Item
Z.E41 \$		Z U		1) Z	81/02/1		рәшіј	M1018R4.000 : MATERIAL: AISI 1018- 1035 ROUND BAR MT010S2004 AS PER MTC-S-7097 OR ASTM MT08		M1018R4.000		8
9.471\$	#/Str.62\$	Ĥ 9	IJ O	H 9	81/57/7	-	Firmed	037.2A8101M -8101 ISIA :JAIA∃TAM : AAB GUUOA 3201 A∃9 SA A50320101M MT2A AO 7607-2-JIM 801A		037.278101M		6
)'Z8\$	#\05.02 \$	IJÞ	НО	ПÞ	81/54/7	_	bəmii	303 Round Bat 2.5" MATERIAL: AISI 303 SS PER PAR AS PER PASA MTSA NOT NOT NOT SOLA NOT NOT SOLA SOLA SOLA SOLA SOLA SOLA SOLA SOLA		M303R2.500		01
Z· Z 6 † \$	ls/27£2.31\$	32 sf]s 0	32 SE	81/42/7	_	Firmed	304/316 0.125 Sheet : MATERIAL: AISI 304/316 SS SHEET ANUEALED AS PER MIL-S-5059 OR SS24 (316) OR AMS MTSA SOM (316) ASA0 OR ASME SAS40		A311240EM		LL
3.251\$	t2/27.64.641.4\$	32 Sf	te 0	le SE	81/52/7		bəmii	50-50-60 50-50-60 50-50-60 50-60-60 50-60-60 50-60-60 50-60-60 50-60-60 50-60		We0e2H328.040		12
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88.47\$	H/21.E\$	74 H	H O	# 4 Z	81/15/7	_	Firmed	44 Steel Proof Round Bar 0.750" : MATERIAL : AISI 1144 SARESOROCF STEEL BAB MAIN 10 UNS SMI 10 INEA MTSA		057.0A-4411-TM		ÞΙ
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);991 \$	¥/606.8\$	# 02	¥ 0	. ₹0 £	81/42/1		Firmed	00.5 × 00.1 184 91-1600 00.5 × 00.1 184 91-1600 14 17651/1651/1651 16 17651/1651/1651 17 1761/1651/1651 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18		000,20X000,189T1609M		91

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64 . '921\$	¥/\$682.9\$	20 H	4 0	20 H	81/52/18		Firmed	20.0 × 037. 188 at -1600 14173		000.20X027.08aTf909M		81
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) . 7.32\$	#\882.1\$	20 H	¥ 0	20 ft	81/54/18	_	Firmed	767. X 375. 186 T1806 - 1806 : JAIRETAM : 616.10 16.06 1.06		027.0X37E.0B3T1303M		91
Extende Price	Price (CAD)	Balance	Received	Order Quantity	Date Date	JunoooA	Status	Description	Supplier Part No	Part	dot	ani. mət

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

www.dartaerospace.com for further explanation. Terms & Condition of Purchasing (Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit

Plex 7/17/18 2:49 PM dart.lavoie.chantal

ACIER OUELLETTE INC.

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 935, Boul. du Hâvre Salaberry de Valleyñeld (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248



T976TT0NOS Quotation

Shipped to	Your Order No	
	Prices valid until	ZT/Z0/8T0Z
1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	°M noisiv9A	0
DART AEROSPACE LTD	Date	2018/07/10
Billed to	Customer N°	CFI0001026
DART AEROSPACE LTD 1270 , ABERDEEN ST.	Date Nevision N°	0 01/20/810Z

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00.822 00.02 98.76 98.76 \$5.25 \$71.055	es Mb Price	Price	M/U ሊታሪ	W/n	Qty	Weight	Product No and description
98.438 00.02 52.633 \$69.268	U	120.30	Id 00.9	Id	00.9	16.72	TUBE MEC 3.750 OD X .120 (R) TME-3750120 6697
98.79 58.69 58.69 69.268 58.69		59.₽	NU 00.0ZI	Id	120.00	00.0	TUBE MEC. 0.750" OD X.083" VARIE N 6 X 20' R/L 2-3 DAYS 1
20.00 50.00 50.00 50.00 50.00		98.2	Id 00.04	FI_\$CPI	00.0₽	1 0.61	** PRICE VALID FOR TOTAL QUANTITY ** TUBE MEC 0.750 OD X .065 (R) TAME-0750065 6777 A X 20' R/L Z-3 DAYS
71.0££ €5.32 92.68 ≯2.€£1		51.9	2I4 00.61	PI2_\$CLB	16.00	0 1 ,221	PLATE 44W 3/16 RANDOM 1
€6.258 \$5.652		00.02	1.00	NN	1,00		1 X 4' X 4' STOCK SHEAR 2 SHEAR 2
692.68 ≯2.821		57.8 4 2	NU\$_NUEE.1	ZId	1.33	108.65	PLATE 4140 HEAT TREAT 2 NS P4140-2H 907 2 1 PC 4" X 4" 10 DAYS
≯ 2.2€1		19.05	NU\$_NUEE.1	PI2_\$CLB	1.33	91.72	PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 8509 1 PC 4" X 4" 10 DAYS
		25.08	NU\$_NULL.LL	ZId	11.11	78.822	PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 8509 1 PC 40" X 40" 10 DAYS
10.00		29.99	I4 00.2	PI_\$CLB	2.00	44 .28	BCB→ 2344 BONND CB ← 1018 (B)
		10.00	1.00	NO	1,00		1 X S, 210CK 2CIE 1 2PM COL

ACIER OUELLETTE INC.

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1



Fax: 450-377-5696 Mtl: 514-336-4246 Ext:: 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

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	Denis Quenneville				nemesle	5			, Ontario,	
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			0		۰N	noisivəS	1			1270 , ABERDEEN ST. HAWKESBURY, Ontario, KGA 1K7
	01/20/8102		Date					DART AEROSPACE LTD		
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(00.28 02.7e ^	NU (00.1	PI2_\$CLB	1.00		SCIE 116483042B 3402 1 X 4' 4-5 DAYS 30UND 2-1/2" DIA RANDOM 55303 1 X 6' 570CK 2 X 6' 570CK 5 X 6' 570CK
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	Σ Ι.ε	NN	00. ₽ 2	Id	00,42	00.0	OUND 3/4" DIA RANDOM STRESSPROOF N X 24' OR 2 X 12' 7-10 DAYS
		17.241 62.5£1 12.5 12.5	62.5£1 NU 69.₽ Iq 1£.5 Iq	62.SE1 NU 00.1 69.4 IQ 00.02 18.S IQ 00.89	PI2_\$CLB	32.00 PI2_\$CLB 1.00 UN 132.59 20.00 PI_\$CLB 63.00 PI 4.99	18.02 32.00 PI2_\$CLB 1.00 UN 132.59 28.82 20.00 PI_\$CLB 63.00 PI 4.99

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			Vet 30 Day		300	arrier Fredit Terr			OOG GES CISTIST STOWN I MATMANS - MA
			(na na 12)		em	,96e ''.caucu			Att : CHANTAL LAVOIE Tél.: 613-632-5200
JunomA	Price	Pcs Nb	Price	W/n	(देहें)	M/N	δtλ	Weight	Product No and description
00.0			00.0	NN	00.0	NN	00.0	00.0	HEX BAR 1" RANDOM STRESSPROOF
		***************************************							N REGRET, NOT AVAILABLE
166.06			08.8	Id	00.02	PI_\$CLB	20.00	00.84	FLAT ALU 1 X 2 6061-T6 * FAL-12 2497 1 X 20' STOCK
80'519			60.71	Id	36.00	PI_\$CLB	36,00	172.80	FLAT ALU 1 X 4 6061-T6 * 7 X 12' STOCK
17.784			26.02	Id	00.₽Σ	PI_\$CLB	24.00	140.98	FLAT ALU 1 X 5 6061-T6 *
11.921			9Z.01	Id	12.00	PI_\$CLB	12.00	35.28	FLAT ALU 1 1/4 X 2 6061-T6 * FAL-1142 2456 1 X 12' STOCK
92'57	- 12	=160	1,29	Id	20.00	PI_\$CLB	00.02	29.9	FRL-3834 2620 FLAT ALU 3/8 X 3/4 6061-T6 *
96,28			\$I' b	Id	20.00	PI_\$CLB	20,00	86.52	# FL-122
67.251			6Z ' 9	Id	20.00	PI_\$CLB	20.00	36.35	FLAT ALU 3/4 X 2 6061-T6 * FAL-342
22.912			18:0 4	Id	12.00	PI_\$CLB	12.00	63,50	FLET ALU 1 1/2 X 3 6061-T6 * 7 1 X 12' STOCK
1 225.00			12.8	ZId	144.00	PI2_\$CLB	144.00	70.18	ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131



Billed to

3 X 4, X IS, DAC I SIDE 3-4 DYXS

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 866-456-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4248

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1976110NOS

ACIER OUELLETTE INC.

Customer N°

Quotation

ACIER OUELLETTE INC.

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 935, Boul, du Hâvre Salaberry de Valleyñeld (Québec) J6S 5L1



Quotation

1976110NOS

ALU SHEET ,081 (12G) 6061-T6 RANDOM	164.30	144.00	PI2_\$CLB	144.00	PI2	07.6			1 396:
Product N° and description	Weight	Ид	M/U	δtγ	M/U	Price	Pcs Nb	Price	ıomA
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Att: CHANTAL LAVOIE Tél.: 613-632-5200			Credit Ter	sw.		Net 30 Day	sk		
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						24,972 S	(Lbs) Total Weight (Lbs)
S6'E					\$		FUEL CHARGE FRAIS_ENERGETIQUE
						· K.	3 X 4, X 15, bAC 1 SIDE 3-4 DVAS (V)
1 396,50			0۲.6	144.00 PI2	144.00 PI2_\$CLB	164.30	ALU SHEET ,081 (12G) 6061-T6 RANDOM
JunomA	90irq o	Pcs NI	Price	M/U YAQ	σελ n\m	Weight	Product N° and description

17.653.11	Total (\$CAD)		Date		Approuved and Accepted by :
69.04£1 · · £1-HV		notion	e without notice in fu	gnedə nsə lsi	This offer is based on the availability, the price of mater of the evolution of the current market prices. This offer is subject to credit approval.
10 313,02	Sub-total			JnetroqmI	
				24,675 2	Total Weight (Lbs)

\$4.5 \cdots \c

TI44 hex bar 1" x 12 ft-

1144 round bar 0.750" x 24 ft.

The square the state of the square of th

6061t6 round bar 1.250" x 24 ft.

12 SE x "040. Jashe SEASSOS

304 round bar 4" x 12 ft cut in section 6ft

304 sheet 11 ga x 32 st

303 round bar 2.5" X 4 FT.

11 5 X "027. 2 16d bnuo1 8101 11 3 x "027. 2 16d bnuo1 8101

ine V.W. red barrer 8101

4140 bar or plate 2" X 4" X 4 FT 4140 bar 0.500" X 4" X 4 FT 4140 bar 0.500" X 4 FT X 4 FT

HKS sheet 6 GA X 4 FT X 4 FT X 1 PCS

TT 0 X JJAW "2SI. X "027. E gnidut bnuot £12A TH OST x Ilsw "280. x "027.0 gnidut bnuot £12A THOUSE THE SECTION OF SECT

Good afternoon Eric, Please advise pricing and delivery on the following mat'l.

Subject: quote

'losianne Bourdon'

To: 'Eric Kaehlert'

From: Chantal Lavoie Monday, July 09, 2018 1:25 PM

Sioved leaning

12 441 x "080. 199Az a11 800" 12.851 × "040. 199its 311.80.

Chantal **Thanks**

4 9

Chantal Lavoie
Purchasing Coordinator

E clavoie@dartaero.com F 1613632-1053 1 1 613 632-5200 DART AEROSPACE

www.dartaerospace.com

TAAC

Chantal Lavoie

Daniel Paquette

Friday, June 29, 2018 11:24 AM Michelle GagnonDonovan; Chantal Lavoie

REVISED PART NUMBER RE: M101856GA

Ket; REM651√3000125-1 SO 7355

Subject:

:oT

:tuəS

From:

Use this part number instead since we have a drawing for this. Thanks.

AD9-S-SAH-TM

From: Daniel Paquette

Sent: Friday, June 29, 2018 11:08 AM

To: Michelle GagnonDonovan <mgagnondonovan@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>

Subject: M101856GA Ref; RBEM651V3000125-1 SO 7355

Michelle please enter into PLEX. Thanks.

Chantal please order 4' X 4' sheet of this. Thanks.

-:--- I I-1--- I

Subject:

:50

:oT

:quəs

From:

Chantal Lavoie

Daniel Paquette Tuesday, July 03, 2018 8:24 AM

Michelle GagnonDonovan; Chantal Lavoie Francois Kirouac; Jean Francois Cadieux MT-4140-S-0.500 Ref; 20NR-09 AND 20NR-43

Michelle please enter into PLEX. Thanks.

Chantal please order 4' X 4' sheet of this. Thanks.

DANIEL PAQUETTE

Production Engineering Coordinator

1 800 226-4166 1 1 613 635-6246 DPKL VEKOSPACE

www.dartaerospace.com

TAAG"

Chantal Lavoie

Daniel Paquette From:

Friday, July 06, 2018 2:16 PM Sent:

Chantal Lavoie Cc: Subject:

To:

Francois Kirouac; Jean Francois Cadieux M1018R4.000 Ref; RBT18526-4

Please order 12" of this please. Thanks.

DANIEL PAQUETTEProduction Engineering Coordinator

DART AEROSPACE T 1 613 632-5200 > 236 F 1 613 632-5246

Chantal Lavoie

From:

Sent:

Wednesday, July 04, 2018 8:08 AM Francois Kirouac

Chantal Lavoie; Michelle GagnonDonovan

Kim Johnston

Subject:

မို ပိ

M303R2.500 REF: RBEM622V4008101-7 S/O: 7355

Kim/Michelle please enter into PLEX. Thanks.

Chantal please order 4 ft of M303R2.500 . Thanks.

Chantal Lavoie

Subject:

:tn92

From:

Daniel Paquette

Friday, July 06, 2018 11:42 AM

MT-4140-B-2.000X4.000

Michelle GagnonDonovan; Chantal Lavoie

Ref; RB 92700-10329-041-7

Michelle please enter into PLEX. Thanks.

Chantal please order 4 feet of this. Thanks.

DANIEL PAQUETTE

Production Engineering Coordinator

JAPA ACADOEDACE

Chantal Lavoie

Subject:

:oT

:tuəs

From:

Daniel Paquette

Friday, July 06, 2018 2:25 PM

Michelle GagnonDonovan; Chantal Lavoie

MT-A513-T-3.750W0.125 Ref; RBT18526-5

Michelle please enter into PLEX. Thanks.

Chantal please order 4 feet of this. Thanks.

DANIEL PAQUETTE

Production Engineering Coordinator

J- VED

Material Test Report

Ends: Deburred

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_	.on ATM	etsO	

Dayton, OH 45459 7953 Washington Woods Dr.,

Product: TUBE

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									,	071 076	רצאר (ווטב)	CID-CIC(ICE)	.anon

1D=0.584"; (WT=0.083"); Debuired; Length=240" to 288"

0051.0 0009.0 0.3000 isq 005:0 0.2300 0.1800 HARDNESS 3 % S.Y XAM NIM MON 2.T.U CHEMICAL ANALYSIS NI 0000'0 0000.0 TW 6,096,000 - 7,315,200 MM 240,000 - 286,000 IN NI 000000 0500.0 185.0 14.834 al NI 0900'0 00000.0 1.550 176.866,1 1 0.750 19.050 OD **WEIGHT TON** METER / FT NUMBER 3A-TOLE SANCE DIWENSIONS YTITNAUD Steel Grade: 1020 Heat No: USC1472

Zirconium (Zr) Boron (B) % (M) negoniM (IT) muinstiT Calcium (Ca) Columbium (CB) Remarks: Copper (Cu) g Gauge Width (MM): (V) muibensV Molybdenum (Mo) Tensile Spec Type: Sample Orientation: Nickel (Ni) Chromium (Cr) PROD 0019.0 0.0350 Suifur (S) 00.08 20.00 010,87 059,78 MILL (9) smortgeord 0.0120 0.0350 XAM 0.0460 (JA) munimulA Silicon (Si) 10.00 0513.0 00.87 000,28 000,88 NIM (nM) esensgnsM (3) noche3

: S/3% OF OD 1/3% OF OD PASSED DASSED :

: PASSED (1/1000 MM) : 15% OF ID PASSED Melted In: INDIA

STRAIGHTNESS

TEST DNIRAJF FLATTENING TEST

Remarks:

(n2) niT

(d2) ynomiinA

Product is free of weld repair and not come in contact with Mercury or any of its components. Produced in: INDIA

We hereby Certify that the material describ at above conforms to Specification and Purchase Order.

100% EDDY CURRENT TESTING- E309

% %

Quality Co-ordinator Bill Johnston

Any questions, Please email: TestReports grants-lic.com

1. 20865 1

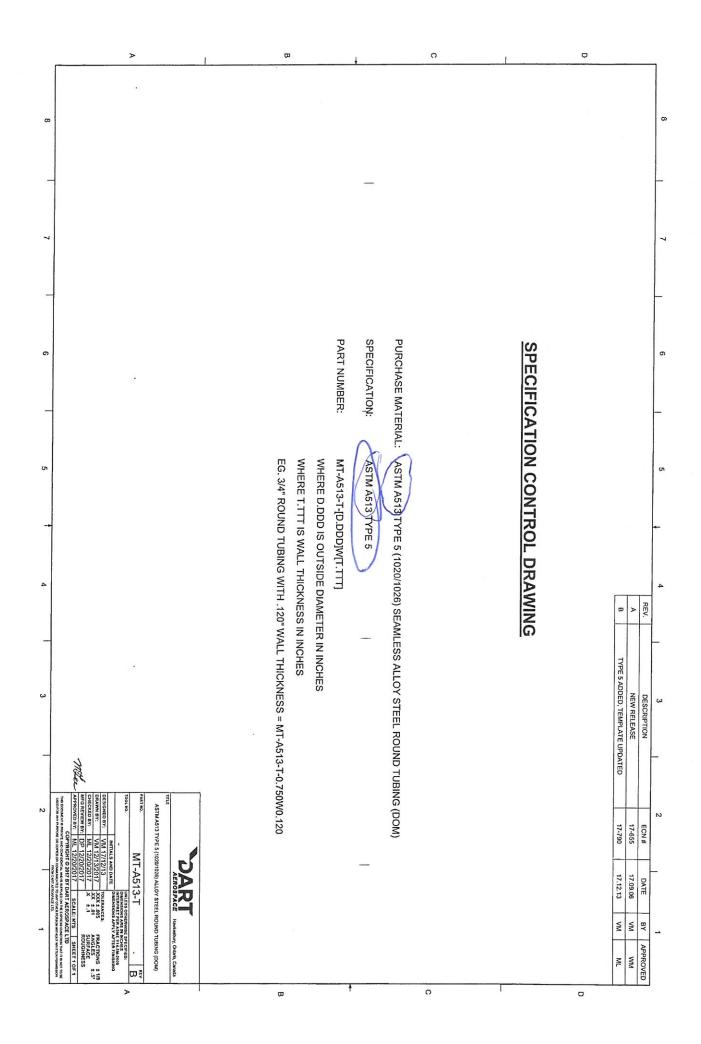
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	0009		LUCK INDUSTRIES	USTR	IES		DEPAR	TMENT	DEPARTMENT. OHA! ITY	17	Doc.No.	GLI-FT-GA-20	Γ
	¥	(A UNIT OF A-51, SIKANDI	(a unit of goodluck india Ltd) -51 , bikandrabad industrial Area,	INDIA LTD) STRIAL ARE	ä		4	ASSURANCE	INCE		Rev. No.	18.07.2016	1
	SIKANDRABAD, DIETT-BULANDSAHAR UPIRDIA) TEL NO. +39-120-418600, FAX. NO. +91-120-4186886 An ISOYTS 18943,180-140016.0HSAS 18801 Certinal Company	DRABAD ,DII +91-120-41 949,150-140	sikandrarad, distt-bulangsahar upirdia) Tel. no. +51-120-418600, fal. no. +51-120-4186816 Souts 163-8;180-140012.0HSAS 18801 Centing Com	88AHAR UP! 10. +91/120- 18801 Cerm	White 11sesse ad Company		VORK 1	EST CI	Work test certificate	ATE	3	(a) expenden	
	Customers at the series of the series	CANASEAN	TE31.01.2	916					Purchase	Purchase Order No.: G17145-P	45-P		T
- 67	Ske: 0.750" On we have no various.	TEM STEEL	D FEEL WORTH AMES	TERICA , LLA					RUM Supplier 1.35W	WSF1 aa			
V7	Specifications ASTM A 44 harana a con-	ASTIN A C.	d'Anneagan		i			0.0	Invoice No	Invoice No.A. Dates: OLIND/17-18/0133/31.01.2018	DM 7-18/013	3/31.01.2018	
4	HEAT NOGCOIL NO. (4372490)01-18N-035	IL NO. (A3)	72490101-11	SEO MI	NCA.				Container	Container No.: CLNIP-4669436	9430		-
	Hom no. 1 1	J	7					•	Quantity:	Quantity : 271 PCS(169 X 01,102 X 01) FEFT	01,102 X 01		
									Bundle Mo	Bundle No. G17444, B. C. J. TO G2100F B. C.	10 647446	2983	
				CHEM	CHEMICAL PROPERTIES	RTHES				MECHANI	MECHANICAL PROPERTIES	215	T
		%9	Mm%	. Han.	5% так. Р% так.	%18	AI%	%N	Tensile Strength	Yield Strength (pcl) min.	EL % min.	EL % min. Marchess (HRB) min.	1 6
	SPECIFIED	0.18	0,30	0.035	0.035	1	,	1	(psi) min. 65000	55000	10%	75	_
	ACTUAL	0.184	0460	0.004	0.010	0.081	0,040	0.0043	96452	81984	21%	85	_
İ	Warner of Warner											90	Т
	Flaming Teat		Min 1/3 % of OD passed. Min 15 % of 10 passed 0.030*73.0* Max. passed	Obpassed in passed by passed					Surface : Eddy Current Tesh Maturtal Grante : Final Condition :		Smistactory 109% Tubes test Fully Killed SRA as per P.O.	Sedistactory 100% Tubes tosted found satisfaciary Pully Killed SIA as per P.Q.	
£ 2	is is to cartify	t that the mi	Mariel suppli	ind confirm t	o all requiren	neels as spa	cified by the	r customer."	his test cert	This is to cartly that the materies supplied confirm to all requirements as specified by the customer. This test cartificate confirms to EN 10204.3.1	16 EN 10204.	3.1	_
			ce te Europi	ean Environ	mental Legi	Slation-Reb COUNTRY	Nigh-Rams Directive 2002/9 COUNTRY OF ORIGIN-INDIA	* 2002/95/E	,;	ä			
		PREPARED BY	2							Good Vinit, 197			
	(FOR (BOODLUCK	FOR GOODLUCK INDUSTRIES	_					5	M.O.B.Quality Assurance	Saurance		
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No. 8884 P. 21/26

. Apr. 3. 2018 10:57AM

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MATERIAL RECEIPT INSPECTION FORM

(if required)	ING SIGNOLI	ENGINEER	法保险组长的				QC 18 INSPECTION		
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						1G	HARDNESS / DUROMETER READIN		
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

68-6 19

DAS

SIGNED OLL BY:

18/2/31

:3TAQ

INSPECTED BY:

RCR-4

4489

ARANA Y LUPARDO, 2 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN) Tfno.: 946480211

Fax: 946480128 Email: calpradera@calibradospradera.cs www.calibradospradera.cs



CERTIFICADO DE CALIDAD/QUALITY REPORT

1.5

EN 10504/DIN 20046

De acuerdo a /Made according to:

N. CERTIFICADO / CERTIFICATE NR.: 51485

Delinery Note Nr. CUSTOMER CES ACIERS TRANSBEC (1997) LTÉE

Productos Calibrados de acero. Condiciones técnicas de suministro.

Bright steel products. Technical delivery conditions.

: www.

Norma: EN 10277

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTMA 108

MEDIDA MEDIDA	30	TOLERANCE	KGS	Description	N° PEDIDO
05,50	816141	920,0 -	996	1018 RED. ESTIRADO 63,50 (2 1/2")	PA1-50039
05,50	141942	940,0 -	996	1018 KED: EZLIKVDO 63,50 (2 1/2")	14005-UO
19'44	141944	701'0 -	1.062	1018 KED. TORNEADO 74,61 (2 15/16")	14005-00
66,33	146141	940'0 -	9011	1018 RED. ESTIRADO 60,33 (2 3/8")	1 ≯ 00℃-∩O
54,45	142427	940'0 -	1.042	1018 RED. ESTIRADO 44,45 (1 3/4")	47202-MS
44,45	142532	940'0 -	902.2	1018 RED. ESTIRADO 44,45 (1 3/4")	PAR-50288
09'101	142534	Z01'0 -	9911	1018 KED. TORNEADO 101,6 (4")	88Z0S-SIV
08'05	142589	201,0 -	986	1045 KED. ESTIRADO 50,80 (2")	VI-50322
56,≯£	145003	150'0 -	940'1	1018 RED. ESTIRADO 34,93 (1 3/8")	VI-50322
54'47	145002	940'0 -	1,122	1018 RED. ESTIRADO 44,45 (1 3/4")	VI-50322
05,50	142596	9200-	996	1018 RED. ESTIRADO 63,50 (2 1/2")	VI-50322
19,47	142595	201'0 -	4.242	1018 RED. TORNEADO 74,61 (2 15/16")	VI-50322
05,50	142716	940.0 -	996	1018 RED. ESTTRADO 63,50 (2 1/2")	59E05-WS
08,02	142713	Z01'0 -	068	1045 RED. ESTTRADO 50,80 (2")	S9E0S-MS
05,53	145712	701'0 -	1.222	1045 RED. ESTIRADO 63,50 (2.1/2")	\$9£0\$-WS
101'00	142769	201,0 -	1.162	1018 RED. TORNEADO 101,6 (4")	CV-20427

Composición quimica de la colada / Chemical Analysis of Heat

!S %	S %	d %	N %	uW	no %	3 %	COLADA Cast Nr.	OE	No. of Contract of	Weasur WED
0,240	970'0	510'0	0,010	0,850	0,040	091'0	SH 56974	141918	00'0	05,50
0,240	970'0	5100	0100	058'0	0000	091'0	SH 96974	141942	00'0	02,50
0,220	720,0	970'0	0100	0.830	090'0	0/1'0	SH 86977	141944	00'0	19.47
0,240	9700	510'0	010,0	058'0	0,040	091'0	42692 HS	141941	00'0	££'09
0,210	0,032	0700	010'0	0,840	050,0	081'0	SH 66977	142427	00'0	50'00
012,0	0,032	070'0	0100	0,840	050'0	081'0	SH 66977	142532	00'0	St'tt
0,240	0100	610,0	0000	0,740	0/1/0	0/10	42629 AA	142534	00'0	09'101
0,220	6000	9000	0000	076,0	0000	094'0	42462 HS	142589	000	08,02
0,220	0,025	9100	0000	098'0	0000	0'120	42441	145003	00'0	34,93
0170	0,032	0700	0100	048'0	0000	081'0	SH 66977	142602	000	54,45
0,240	9700	\$100	0100	058'0	0000	0910	SH 56974	142596	00'0	05, 50
0,220	LZ0'0	9700	0100	0,830	090'0	0/10	SH 86977	142595	00'0	19'74
0,240	970'0	\$100	0100	0,850	0000	091'0	SH 96977	142716	00'0	05'89
0,220	600,0	9000	0000	049'0	0000	094'0	47462 HS	142713	000	08,02
0320	160,0	7100	0000	004'0	0000	0,450	SI 98L07	142712	000	05,50
0,240	0100	6,013	0000	0740	0/10	0/1,0	42629 AA	(69LZ+D)	00'0	09'101

Caracteristicas mecánicas / Mechanical properties

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN) ARANA Y LUPARDO, 2

Tino.: 946480211

Email: calpradera@calibradospradera.cs Fax: 946480128

www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

1.5

EN 10504/DIN 20046

De acuerdo a /Made according to:

N. CERTIFICADO / CERTIFICATE NR.: 51485

CUSTOMER Delivery Note Nr. LES ACIERS TRANSBEC (1997) LTÉE CLIENTE 21485 VLBARAN

Productos Calibrados de acero. Condiciones técnicas de suministro.

: wion Norma: EN 10277

Bright steel products. Technical delivery conditions.

Dureza HB Hardness HB	Alargamiento Elongation Lo=50 mm.	ostissio.mi.l Vield point Smm/N %2,0	Resistencia Tens. strenght Wimm2	COLADA Colat Nr.	OŁ	MEDIDY
00'981	34,00	302,00	00,274	SH 56974	816141	05,59
136,00	34,00	30,500	00,274	SH 5697#	141942	05,50
135,00	30,00	308,00	00'99+	SH 8697#	776 171	19'1/
132,00	33,00	308,00	00'091	SH 26974	146141	££,03
136,00	31,00	30,700	00'657	SH 66977	142427	St'tt
136,00	31,00	307,00	00,624	SH 66977	142532	St'tt
00'0	34,90	295,00	00,574	42629 AA	142534	09'101
185,00	21,00	378,00	00'899	SH 79#7#	147589	08'0\$
134'00	31,00	301,00	00'657	17777	145603	56,45
136,00	31,00	307,00	00,624	SH 6697#	147602	St'tt
136,00	34,00	302,00	00°SL7	SH \$6977	145296	05,50
132,00	30,00	308,00	00'997	SH 86977	145295	19'\$4
136,00	34,00	305,00	00,274	SH 56977	917241	05,50
182,00	21,00	378,00	00,899	42462 HS	142713	08,02
200,000	00'0	00'0	00'0	SI 9ELOP	142712	05,50
00'0	34,90	295,00	473,00	42629 AA	142769	09'101

Calidad Superficial

Fecha/Date: 05/04/2018

Manufach Man		A
)cschlbton	taria de la comunicación de la composição de la composiçã	EN 10311-1
DESCRIPCIÓN OF	OŁ	Clase

Observaciones: BARRAS DE ACERO ESTIRADAS / TORNEADAS EN FRIO SIN ALEAR

brighted RVUT

QUALITY DEPARTMENT: Certify that the product fulfils the order specifications. DEPARTAIMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.

Directora de Calidad Firmado: Susana Fernández

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	*		120		PUR SPE PAR	14	
_					PURCHASE MAT SPECIFICATION: PART NUMBER: TOLERANCES:		
7				00000	ERIAL:		7
				SIZE UP TO 1.5" INCL OVER 1.5" TO 2.5" INCL OVER 2.5" TO 4.0" INCL OVER 4.0" TO 6.0" INCL OVER 6.0" TO 8.0" INCL	AISI 1078-1025 ROUND BAR MIL-S-7097 OR ASTM A108 M1018-R D.DDD WHERE D.DDD DIA. EG. 7/8" ROUND BAR = M1018-R PER ASTM A108 AS FOLLOWS:	,	
				NCL 10 2.5 INC 10 6.0 INC 10 8.0 INC	025 ROUN ORASTM ODDD WHE IA. UND BAR A108 AS F	Ī	-
٥	*			TOLE +0.000 1: +0.000 1: +0.000 1: +0.000	AIS (1078-1025 ROUND BAR MIL-S-7097 OR (ASTM A108) M1018-R D.DDD WHERE D.DDD = DI/ DIA. EG. 7/8" ROUND BAR = M1018-R0.875 PER ASTM A108 AS FOLLOWS:	SPE	6
				TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006	AIS 1078-1025 ROUND BAR MIL-S-7097 OR ASTM A 108 M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES EG. 7/8" ROUND BAR = M1018-R0.875 PER ASTM A 108 AS FOLLOWS:	SPECIFICATION CONTROL DRAWING	
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MATERIAL RECEIPT INSPECTION FORM

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

TEDO:: 946480211 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN) ARANA Y LUPARDO, 2

www.calibradospradera.es Email: calpradera@calibradospradera.es Eax: 946480128



CERTIFICADO DE CALIDAD/QUALITY REPORT

1.5

EN 10504/DIN 20046

De acuerdo a /Made according to:

N. CEKLIKICYDO \ CEKIIŁICYJE NK: 41001

CUSTOMER LES ACIERS TRANSBEC (1997) LTÉE CLIENTE

Norma: EN 10277 Delivery Note Nr.

10647

Productos Calibrados de acero. Condiciones técnicas de suministro.

Bright steel products. Technical delivery conditions.

: шлоМ

ALBARAN

PRODUCTO SOLICITADO \ PRODUCT ACCORDING ASTMA108)

96874-9LM	8101	RED. ESTIRADO	("4/1 S) S1,77	881.1	9400-	6LL6EI	51'L5
96874-91M	8101	RED. ESTIRADO	("2) 08,02	3.264	940'0 -	139780	08,02
PAR-48154	8101	RED. ESTIRADO	("4/1 2) 21,77	281.1	940'0 -	£946£1	\$1,72
\$60L\$-NW	8101	RED. ESTIRADO	("2) 08,02	766	940'0 -	518651	08'05
PAJ-48073	1018	RED. ESTIRADO	("Z) 08,02	886	940'0 -	#SL6E1	08,02
EV084-LA9	1018	RED. ESTIRADO	(491/51 1) 17'6+	769	940'0 -	SSL6EI	12,64
OU-47832	8101	RED. ESTIRADO	("Z) 08'05	766	9400-	129681	08,02
27874-MQA	1018	KED. ESTIRADO	- 1160	766	920'0 -	139651	08,02
LTDTA-MOA	8101	KED. ESTIRADO	("31/21 1) 12,64	288.1	920,0 -	139551	12,64
ZLSLV-WS	8101	RED. ESTIRADO	("4/12) 21,72	1.050	920'0 -		
ZLSLT-MS	1018	RED. ESTIRADO	("2) 08,08	066	920'0 -	139485	\$1'L\$
89874-92M	8101	RED. ESTIRADO	49,21 (115/16")		920'0 -	139484	08,02
2187 1 -UO		RED. ESTIRADO	/3EC/24 (b/EZ) 58'69	066		139399	17'64
PAR-47786	1045	RED. ESTIRADO	("S) 88,02 ("S) 88,02	ISL	701'0 -	139335	\$8'69
19874-9UM	8101			<i>†L0'1</i>	201,0 -	139307	08,02
IESTA-TUM		RED. ESTIRADO	("4/1 S) 21,72	2.234	_970,0 -	102627	SI'LS
	1018	RED. ESTIRADO	("Al S) 21,72	020.1	920,0 -	139149	S1'LS
9E474-UO	8101	RED. ESTIRADO	("4/£ 2) 28,69	1.134	701'0 -	138834	58'69
PA1-47284	1018	RED. TORNEADO	101,6 (4")	686.I	701'0 -	139585	
N. PROMOO			ESCEIPCIÓN Bescription	35031	SUBSTITUTE		

Composición química de la colada / Chemical Analysis of Heat

-402'0	-0°05¢	0,012	600,0	00000	911,0	601,0	0000	6L1'0	41574 AG	677681	00'0 51'25
107'0	770'0	6,013	0,002	0000	L8L'0	611'0	0000	LLI'0	DA 70014	087951	00'0 08'05
702,0	0,024	0,012	6,003	00000	944'0	601,0	000,0	641'0	DA ATSIA	£979£1	00,0 21,72
102'0	0,022	6,013	200,0	0000	787,0	611'0	0000	LLI'0	41607 AG	518681	00,0 08,02
0,201	0,022	6,013	2000	000,0	L8L'0	611'0	0000	LLT'0	DA 70814	139754	00,0 08,02
107'0	0,022	0,013	0,002	0000	L8L'0 :	611'0	0000	LLI'O	DA 70314	SSTEEL	49,21 0,00
102'0	0,022	6,013	0,002	00000	L8L'0 !	611'0	000,0	LL1'0	41607 AG	139621	00'0 08'05
107'0	0,022	6,013	200,0	0000	L8L'0	611'0	00000	LLIO	41607 AG	139551	00'0 08'05
102'0	220,0	6,013	0,002	0000	787,0	611,0	000,0	LL1'0	DA 70314	0556£1	49,21 0,00
70Z,0	0,024	0,012	€0000	0,000	944'0	601,0	0000	641'0	DA 47214	284681	00,0 81,72
102'0	220,0	6,013	2000	0000	L8L'0	611'0	000,0	LLI'0	DA 70314	139484	00'0 08'05
102'0	0,022	6,013	Z00'0	0000	L8L'0	611'0	0000	LLI'0	41607 AG	665651	00'0 12'67
817'0	220,0	0,010	6,003	0000	L18'0	0,132	000,0	£71,0	DA TT214	(SEEGE)	00'0 58'69
L61'0	0700	210,0	0000	6,003	094'0	000,0	781,0	074,0	DA 97414	139307	00,0 08,08
L02'0	0,024	0,012	0,003	0000	944'0	£01'0	0000	641'0	DA 47214	105651	00'0 Sl'LS
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IS	S	ď	N	OM	пМ	Cn	Cr	Э	Cast Nr.		Measurement
%	%	%	%	%	%	%	%	%	COLADA	OF	MEDIDA

Tfro.: 946480211 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN) ARANA Y LUPARDO, 2

Eax: 946480128

www.calibradospradera.es Email: calpradera@calibradospradera.es



CERTIFICADO DE CALIDAD/QUALITY REPORT

1.5

EN 10704/DIN 20046

De acuerdo a Made according to:

N. CERTIFICADO / CERTIFICATE NR: 47901

CUSTOMER Delivery Note Nr. LES ACIERS TRANSBEC (1997) LTÉE 10647 CLIENTE ALBARAN

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norms: EN 10277

: ILLION.

.3	conditions	улэхііэр	Technical	roducts.	ક્ષેયા રાલ્લા ક	ug

BB exernd Randness	Alargamiento	Lim.elastice Alargamiento Yield point Elongation		COLADA	OF	MEDIDA	
ah.	Lo=50 mm.	2mm/N %2,0	Iens. strenght	Cast Mr.		Measurement	
00'5E1	30,00	00'66Z	458,00	41259	585651	09'101	
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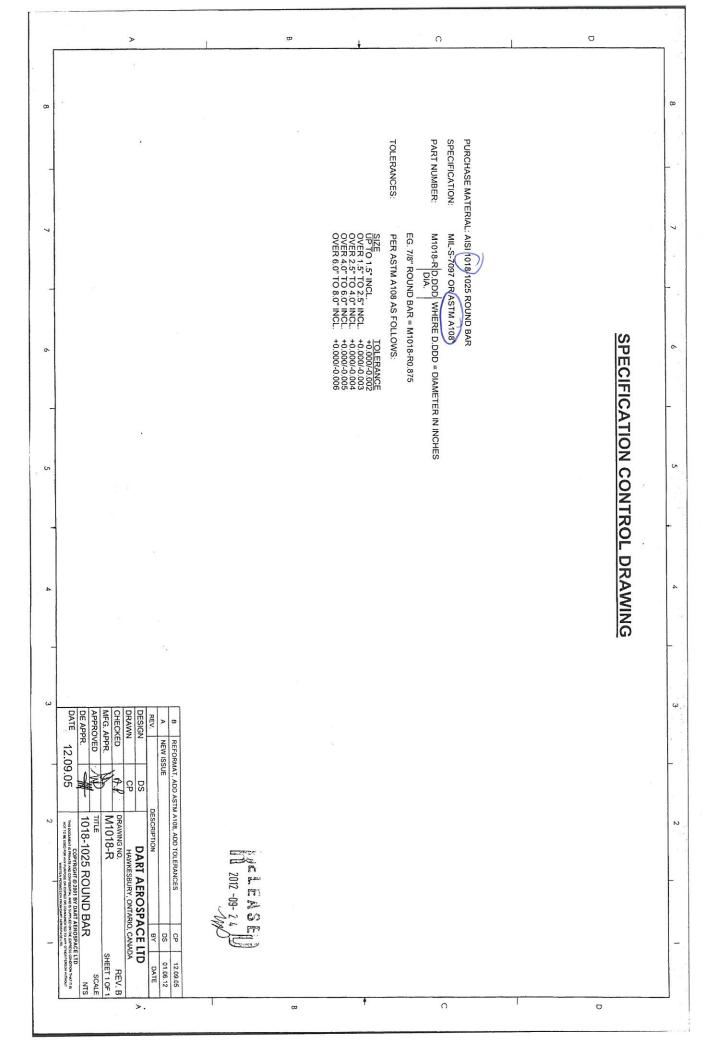
Calidad Superficial

Description		İ	EN 10277-1
DESCRIPCIÓN	OF	OF	Clase

Observaciones: BARRAS DE ACERO ESTTRADAS / TORNEADAS EN FRO SIN ALEAR

Fecha/Date: 21/06/2017 QUALITY DEPARTMENT: Certify that the product fulfils the order specifications. DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.

Firmado: Susana Fernández Directora de Calidad



MATERIAL RECEIPT INSPECTION FORM

		:31) (6	- 10 mm				10000		
:3TAG					RKG/8) :3TAO				
SIGNED OFF BY:							W	INSPECTED BY:	
(if required)	ING SIGNOE	ENCINEER				250		C 18 INSPECTION	
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THICKNESS ORDERED: 7750,						185	, ,	MATERIAL CERT RE	
),			O., III				/	NATEDIAL OFFIT OF	
						18	15: (867/	∀a	
PO/BATCH NO.: 100 40 517 / Joy 82					MATERIAL: 10(1812).750				

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Z02X/ 07

Dort

£680010

VIRAJ PROFILES LIMITED

C-Inail- vielqc@viraj.com

C-Inail- vielqc@viraj.com

C-Inail- vielqc@viraj.com

TEST CERTIFICATE

29.06.2017

42264 HEVL NO

PACKING LIST NO INSPECTION NO

оврев ио

100008469952

9/61001052/19

P005927

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1100719596,1100719595, BUNDLE NO:

STAINLESS STEEL BRIGHT BARS

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SPECIFICATION:

AATERIAL CONFIRMS TO DIN 10088-3:2005 COND-A & ASTM AS82A-5208, ASTM A 388-05, ASTM A484-16,AMS 5640U TYPE I, EXCEPT MARKING,
AISI 303 & WHR 1,4305.

CERTIFIED AS PER EN 10201- 3.1

CONTAMINATION COUNTRY OF ORIGIN: INDIA.

CONTAMINATION COUNTRY OF ORIGIN: INDIA.

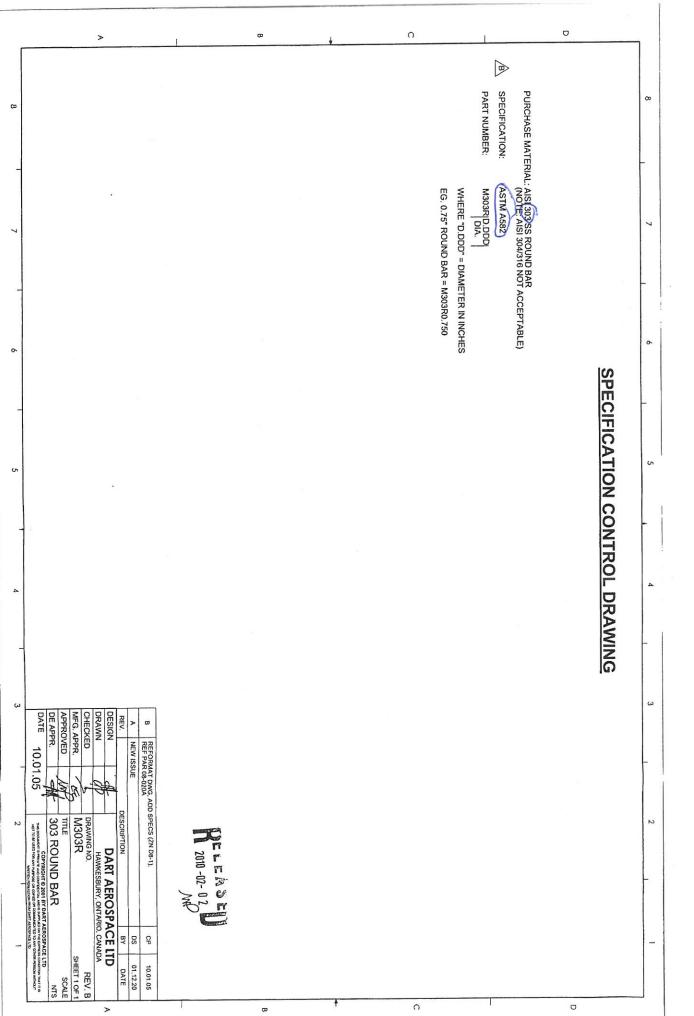
CONTAMINATION COUNTRY OF ORIGIN: INDIA.

CONTAMINATION COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

WORKS INSERCTOR

11



	SIGNED OFF BY:						INSPECTED BY:
(if required)	ING SIGNOE	ENGINEER	Territoria				OC 18 INSPECTION
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							DOES THIS REQUIRE AN
					W	7	ENGINEERING SIGN OLE
							DOES THIS MATERIAL REQUIRE
					N	(1)	CORRECT M# ON THE MATERIAL
					N	R	ORRECT MATERIAL IDENTFICATION
			h985	ועיה	N	M	CORRECT REF # TO LINK CERT
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	1080			AR WHO SHEET	N	R	CORRECT GRAIN DIRECTION
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The abos / U.S	50200 ::ON	PO / BATCH	-		a		MATERIAL: 1/507/3

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:3TAQ

:3TAQ



North American Stainless Canada Inc. 740 Imperial Road North Guelph, ON N1K1Z3-Canada

FESS-1164830421S METALLURGICAL TEST REPORT

PO, 14245 6870 Highway 42 East

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Certificate: 368166

Customer: 007036 016

NAS Order: DS 0013262 01

Date: 1/08/2018 Page: 1

Steel: 304 Finish: 2B

Corrosion: ASTM A262/15 A; 180Bend-0

PRODUCT DESCRIPTION:

Your Order: 4500847537

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED; UNS 30400
ASTM A240/16a,A480/16b,A666/15;ASME 32240/17,SA480/17,SA666/17
CHEM ONLY ON FOLLOWING ASTM: A276/17,A479/17,A484/16,A312/16
CHEM ONLY ON FOLLOWING ASME: SA312/13,SA479/13
AMS 5513y XMRK; MIL-S-5059D AMEND3 (X CROMN MEAS)
NACE ME0175/ISO 15156-3:2009 A, ME0103/07;QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg.by a Quality Mgt.Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARs Compliant

Product Id	Coil #	Skid # Thickness	Width	Weight	Length	Mark	Pieces Commodity Cod	y Code	
02648C C	02648C C	.1200	.1200 48.0000	15,920 COIL	COIL	N	1 16000940	0	
			Contract of the Contract of th		and the second s				Section of the Party Contract of the Party C

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323 Chemical Analysis per ASTM A751/14a

a

HEMICAL

ANALYSIS

		,		
			6480	HEAT
			SD	CM
	IS			C
.2490	SI %		0442	CM C %
			.0442 18.1730	CR %
			.4155	CD %
			1.7665	MN %
			.3340	MO %
				N
			.0509	N %
			8.1115	NI %
			. 0	ש
			.0335	%
				Ø
			.0010	%

MECHANICAL PROPERTIES

,	02	rg rt
	02648C C	oduct Id#
	02648C C	Product Id# Coil #
	¥	4 th D
	FT 97.43	UTS 20 KSI
	46.94	20C .2% YS 20C ELONG KSI %-2"
	51.44	ELONG %-2"
	87.50	% Hard RB
	86.00	Tail Hard
		-

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK

1/08/2018

PURCHASE MATERIAL: AIS 304/316 SS SHEET ANNEALED

SPECIFICATION:

MIL-S-5059 ORIAMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240

FINISH:

22257676576567668768766766	GAUGE 26 25 24 23 23
0.034375 0.0375 0.04375 0.04375 0.050 0.050 0.0525 0.0625 0.078125 0.078125 0.09375 0.10375 0.1263 0.1265 0.1275 0.128	(IN) 0.01875 0.021875 0.021875 0.028125 0.03125
0.033 - 0.035 0.036 - 0.040 0.041 - 0.042 0.047 - 0.052 0.053 - 0.058 0.059 - 0.065 0.059 - 0.065 0.066 - 0.072 0.073 - 0.083 0.084 - 0.088 0.084 - 0.088 0.084 - 0.088 0.084 - 0.088 0.084 - 0.114 0.115 - 0.114 0.115 - 0.114 0.145 - 0.145 0.146 - 0.160 0.161 - 0.176 0.161 - 0.176 0.161 - 0.176 0.162 - 0.228 0.225 - 0.223 0.264 - 0.228 0.266 - 0.228 0.266 - 0.228	

MFG. APPR.
APPROVED
DE APPR.
DATE 15

15.01.06

304/316 SS SHEET

COPYRIGHT © 2001 SY DART AEROSPACE LTD

THE SOCIALIST SERVICE CONTROL OF SOCIAL CONT

DRAWN DESIGN REV.

M304S

SHEET 1 OF

NEW ISSUE

REFORMAT DWG, ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A DEFINED FINISH OPTION (ZN C6) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 2B (ZN B5).

> MB AJS

12.09.20

15.01.06

DESCRIPTION

ВҮ DS Ç

DATE 09.06.01

01.09.24

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA

GAUGE THICKNESS REFERENCE:

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

WHERE "#P" = FINISH IDENTIFIER

PART NUMBER:

M304S TT GA #P

FINISH
UNPOLISHED No. 2D
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 7
BUFFED No. 8

DART M-NUMBER IDENTIFIER
TP
2D
NONE
3P
6P
7P
8P

* 13

RELEASED

ECN 15-522 4 2015 FEB 04

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ZHENGZHOU MINGTAI INDUSTRY CO., LTD

TEL: 371-67898611 FAX: 371-67898612 ZONE, ZHENGZHOU HENAN CHINA ио е снаивснии воар, ніен аир ием тесниолову

INSPECTION CERTIFICATE

后公园育业灾泰即州联

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1.016*1219*2438

2.54*1219*C

3,175*1524*3658

(MM)3ZIS

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GRAGNATS

GRADNATS

We certify that 5052H32 material complies with STM B209-14, AMS QQA-250/8B, AMS 4016 M standard. We certify that 3003H14 material complies with ASTM B209-14, AMS QOA 250/2, AMS 4008K standard.

MECHANICAL PROPERTY TEST REPORTS

610.0

1.0

781.0

2.0-20.0

Cu

190*60*120

96.87.070

100*48*C

125*60*144

SIZE(IN)

2.338

2,462

8,5-5,5

910,0

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0.045

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871,r

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ACTUAL MILL CHEMICAL UNIT:%

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1.0 88.0-81.0

185

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(sqM)

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Vield

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Others

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TORONTO, CANADA **ФІИСТРО, СНІИР** LOADING PORT: 7481780024/6110780024 CONTRACT NUMBER: INVOICE NO.: Z-RYWP180410

81/80/18

P.O. NO.: 4500870119/450084:.ON .O.9 ALUMINIUM SHEETS AND COILS ALLOY 3003/H14 AND 5052/H32

GFB1803W50097 0.114 0.294 0.026

760.0

0.25

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9.0

!S

MANUFACTURER: ZHENGZHOU I ZHENGZHOU MINCTAI INUUSTRIOO, LTD.

DAP TORONTO, CANADA

DESCRIPTION OF GOODS:

2025 H35 GED1803M20024

Z909)

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3003

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YOUA

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Temper

GRADIATS

GRADNATS

H32 GFB1803W50097

CEB1803M20035

CFB1803W30080

'ON

107

CFD1803W50054

CFB1803W50092

Lot No.

H1¢ CEB1803M30080

: **BTAG**

SHIPPING MARKS: DESTINATION:

 B
 REFORMAT DWG, ADD 8209 SPEC (2N D8-1), PAR 08-020A
 CP
 09-09-26

 A
 NEW ISSUE
 DS
 01-08-08

 REV.
 DESCRIPTION
 BY
 DATE

0

O

PREFERRED SIZE:

XXX BY 4FT BY 8FT

EG. 0.063" THICK SHEET = M5052H32.063 WHERE ".XXX" = SHEET THICKNESS (IN INCHES) PART NUMBER:

M5052H32S XXX

SPECIFICATION:

QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 1016 OR ASTM B209

PURCHASE MATERIAL 5052-H32 ALUMINUM SHEET

B

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CAMADA
DRAWING NO.
M5052H32S SHEE

DESIGN
DRAWN
CHECKED
MFG. APPR.

DATE O APPROVED

09.09.26

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REV. B SHEET 1 OF 1 SCALE NTS

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Signal Vistoria Contracted GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

MILL TEST CERTIFICATE

Address: My Xuan B1-Conac industrial zone, My Xuan town, Tan Thanh district,

+84(0)043924954 Ba Zia-Ving Tau province, Viet Nam

:[9]

+81(0)643924953

:X39

Date: January 19, 2017

Shipping Ref No.: 17-0046 Customer PO: Inventory PO number: 16-4-421

I'C NO!! DC! HWM X 10535

Hein Code: 1043103 Date of issue: January 18, 2017

Die Number: 1200005

Alloy & Temper; 6061-To

Production Developin: Round Bar L.25"x 20' 6061-T6 D00005

Bundle number: 16-P-421-090,16-P-421-091,16-421-092,16-P-421-093,16-P-421-094 theught (inch): 2-10

Hont Number: 5XF162069 -

Applicable Specifications: ASTM B221 STANDARDS Date: 10/01/2017

CHEMICAL ANALYSIS: %

C102/10/L0	01'0>	20.0>	TET.89	610.0	210.0	780.0	0.022	ENC.0	0:530	126'0	7£8.0
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£102/10/L0	8.01	3.05	1,92
: Ariamasi	Elongation % LN 2"	Yield Strongili (ksi)	Oll. Strength (ksi)

with chemical gradysis and mechanical analysis to match aluminium alloy standard. All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard,

Joquinu months from the date of purchase and are available for review upon request, referring to ASTM and the PO noted and have been found to meet all the applicable requirements. Cartifications are kept on file for 36 We hereby comply that the item listed have been checked and tested in accordance with the specifications

PURCHASE MATERIAL 6061-T67651/T6510/T6511/T62 ALUMINUM ROUND BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

B

SPECIFICATION:

PART NUMBER:

M6061T6R|D.DDD| |DIA. |

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

0

B REFORMAT DWG, ADD B211& B221 SPEC (ZN D8-1), REF PAR 08-020A DESCRIPTION DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6R
SHEI By DS CP 01.06.08 09.07.13 DATE

DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED

REV.

NEW ISSUE

DE APPR.

6061-T6 ROUND BAR

SHEET 1 OF 1

REV. B SCALE SIN

09.07.13

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		:3TAQ					DATE: (8/07/3)
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	5.	COMMENT			75°		DESCRIPTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

1-21-74 LoheH

Ihsbh Ergi-Hal



ANGENEW COLLEGE GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRAL ZONE, MY XUAN TOWN, TAN THAMH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIETNAM

+84(0)243654624 :laT

+84(0)643924953 Fax:

MILL TEST CERTIFICATE

Date: November 17, 2017

01.0>

EACH TOTAL

Other

L10Z/S0/80

Remark:

Production Description: Fist Bar I "x2"x 240" 6061-T6 D00227 Alloy & Temper: 6061-T6 Die Numberr D00227 Item Code: 1927100 Date of issue: October 31, 2017 TC NOT DC HWN114466 Shipping Ref No.: 17-2204 PO number: P-17529

Bandle number: P-17529-007 Length (inch): 240

STS.0

Date: 10/05/2017 Heat Number SXF171892

Applicable Specifications: ASTM B22/STANDARDS

CHEMICYT YNYTASIS: %

SISA	IAM	A.BA	JINI	MECHA

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L10Z/S0/80	11.4	S.8E	42.3
Remark:	Elongation % LN 2"	Yield Strength (ksi)	Ult. Strength (ksi)

110.0

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nMa

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to

Of oth branchase and are available for review upon request, referring to ASTM and the PO noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 We hereby certify that the item listed have been checked and tested in accordance with the specifications match aluminium alloy standard.

Quality Manager

CO" LTD TESTING CENTER **CLOBAL VIETNAM ALUMINIUM** TNHH NHOM TOÀN CẦU VIỆT NAM TRUNG TÂM KIÊM NGHIỆM CÔNG TY

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609'0

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G

PURCHASE MATERIAL 6061-T6/7651/T6510/T6511/T62 ALUMINUM BAR SPECIFICATION: QQ.A-225/8 OR AMS-QQ.A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B223

B

PART NUMBER:

M6061T6B T.TTT | X | WW.WWW

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DESIGN
DRAWN
CHECKED
MFG, APPR.
APPROVED DATE REV. DE APPR. B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) A NEW ISSUE 09.07.13 DART AEROSPACE LID
HAWKESBURY, ONTARIO, CANADA
M6061T6B
SHEI DESCRIPTION 6061-T6 BAR ВҮ DS S REV. B SHEET 1 OF 1 SCALE NTS DATE 01.06.08 09.07.13 >

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com



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		1			
12.000 FT			097618	132,000 PCS	823.000 LB
renesh:	:HTGIW	DIAMIDAFITHKUS:	B/L NUMBER:	:YTITNAUD	WEIGHT SHIPPED:
116511	1909	HK147-197	7121/2017	100	86138
TEMPER:	ALLOY:		SHIP DATE:	INE ITEM:	
	AA8 TO	.375 X .750 SC RE	50	1600013	4500826375-1
		РКОDUCТ DESCRIPTION	:ЯЗВМИИ ТЯАЧ	спетомек	CUSTOMER PO NUMBER:

Actual Physical Properties

BEND	COMDUCT.	OMESS	THARL	EFONG%	XIR(KRI)	OIS (KEI)	# # TI JWYS	#HSYC	KELEKENCE
$A \setminus N$	A\N	96	ВE	₱ - 61	42.1	8.94	T000	1000	HKT₫1-161
A\N	A\N	96	RE	L. SI	6 * T #	5.94	0000	T000	HKI47-197
A\N	A\N	96	BE	20-6	L.I.A	8.94	0003	1000	HKT&1-197
A\N	A\N	L6	BE	0.02	0.19	p.34	₹000	1000	HKT & J-T 6 J
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Applicable Requirements:

conforms to T6-not applicable to other tempers) FELVI-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#R96061 (T6511 &lso

Miscellaneous Notes

OF ITS COMPOUNDS ARE UTILITIED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL. MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. WEITHER MERCURY NOR ANY MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA

Line Item: 001 Order Number: 6035138 Plant Serial: 00295392

Page 1 of 2

Page 2 of 2

Line Item: 001 rder Number: 6035138 Plant Serial: 00295392

Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

CERTIFIED TEST REPORT

CERTIFICATION

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SPECIFICATION: PURCHASE MATERIAL 6061)T6/T651/T651/T62 ALUMINUM BAR O

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM BZ11 OR ASTM BZ21

PART NUMBER:

M6061T6B T.TTT | X | WW.WWW

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DE APPR. 1 - 64 DATE 09.07.13 DESIGN DRAWN CHECKED MFG. APPR. APPROVED REV. REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) NEW ISSUE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO
M6061T6B
SHEE DESCRIPTION 6061-T6 BAR DS CP BY DATE REV. B SHEET 1 OF 1 SCALE NTS 01.06.08 09.07.13

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:3TAQ

10/80/8) :3TAO

1956-491 39EDS -ee1-74-1



GIODEI VIERREI GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIET NAM

+84(0)643924953 +84(0)643924954

Fax:

:loT

MILL TEST CERTIFICATE

Date: February 12, 2018

EVCH LOLVE

Other

IV

I.L.

Shipping Ref No.: 18-0207 PO number: P-17722-1

Item Code: 1094300 Date of issue: January 23, 2018 I'C No:: DC HWN810589

Die Aumber: D00214

Length (inch): 240

Alloy & Temper: 6061-T6

Production Description: ALUMINIUM EXTRUDED PROFILES

BAR.SE RECT. 500"X2,000"X 240" 6061-T6 D00214

Date: 08/01/2018 Heat Number: SXE180043 Bundle number: P-1772-025

Applicable Specifications (ASTM B22) STANDARDS

CHEMICAL ANALYSIS: %

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All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to

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months from the date of purchase and are available for review upon request, referring to ASTM and the PO noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 We hereby certify that the item listed have been checked and tested in accordance with the specifications match aluminium alloy standard.

8.04

Ult. Strength (ksi)

Quality Manager



8107/10/90

Remark:

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SPECIFICATION: PURCHASE MATERIAL 6061-T67651/T6510/T6511/T62 ALUMINUM BAR O

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221)

M6061T6B T.TTT X WW.WWW

PART NUMBER:

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK | WIDTH

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E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

MFG. APPR.
APPROVED
DE APPR.
DATE 09.07.13 CHECKED DESIGN DRAWN REV. REMOVE QQ.A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) NEW ISSUE DESCRIPTION DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B
SHEI 6061-T6 BAR BY DS CP SHEET 1 OF 1 SCALE NTS 01.06.08 DATE 09.07.13 REV. B >

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



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MILL CERTIFICATE

		Şection Sketch :
		Costomer to no. : P207292
CERTIFICATE NO.:	EXTRUSION DATE: Oct-25-2017	3000 See 22 no: :
1159T-1909	110128 AORE ORDER 1	1811448 Ryter okdek no :
Oct-30-2017	SECTION NO. ; SECTION NO. ;	

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	Section Sketch :

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Analysis Ref	IΑ	Ľ	uΖ	Ċī	gM	nM	CP	57	!S	Composition

Compinance with part of the material met the composition limits. Also, note that mercury is not a normal continuous to the representative of the material met the composition limits. Also, note that mercury is not a normal continuous to all its financiary is not a normal continuous to a 1, EM 1030s.

Extraction This continuous are used in the material and the composition limits, and the manufacture of the material met the composition limits. Also, note that mercury is not a normal continuous to 3.1, EM 1030s.

** This certificate of Analysis has been produced electronically and is valid without signature

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Enquiry@lbalum.com.my www.lbalum.com Tel: 603-8725 8822 (15 Lines) Fax: 603-8725 8828 (General), 8725 8833 (Sales), 8725 8866 (Export) Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Beranang, 43700 Beranang, Selangor Darul Ehsan, Malaysia.

O

M6061T6B T.TTT | X | WW.WWW QQ.A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR(ASTM B22T)

PART NUMBER:

SPECIFICATION:

PURCHASE MATERIAL: 606176/1651/16510/165117/62 ALUMINUM BAR

WHERE "T. TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

0

B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) DS S 01.06.08 09.07.13 DATE

DE APPR. SMI

N

DRAWN CHECKED MFG. APPR. DESIGN

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B
SHEE

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REV. B SHEET 1 OF 1 SCALE

REV.

DESCRIPTION

NEW ISSUE

APPROVED

пп.е 6061-Т6 BAR

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if required) ⁻	ING SIGNOF	ENCINEER					SPECTION
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	S	COMMENT	•		CK 500.0	(CPG NC	DESCRIPTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

09819

F611-744

SHAC

Global Metham Co.Ltd GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

MILL TEST CERTIFICATE

BA RIA VUNG TAU PROVINCE, VIET NAM

+84(0)943354324

Fax:

+84(0)643924953

Date: April 26th, 2018

Production Description: ALUMINIUM EXTRUDED PROFILES Alloy & Temper; 6061-16 Die Number: D00141 Item Code: 1931000 Date of issue: April 10, 2018 LC No.: DC HMN811301 Shipping Ref No.: 18-0817 PO number: P-18057

Flat Bar 1,5" x 3" x 240" 6061-T6 D00141

Length (inch): 240

0.900

BIAI

865.0

Bundle number: P-18057-008,P-18057-007

Heat Number SXE180264

Applicable Specifications; ASTM B221 STANDARDS Date: 01/03/2018

CHEMICAL ANALYSIS: %

122,0

910.0

Mn

- 1	n,	9A	8M	is	

112.0

26/02/2018	10.5	£. & £	38.6		
Kemark:	Elongation % LN 2"	Yield Strength (ksi)	Ult. Strength (ksi)		

6.033

uZ

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to

960.0

Cr

months from the date of purchase and are available for review upon request, referring to ASTM and the PO noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 We hereby certify that the item listed have been checked and tested in accordance with the specifications match aluminium alloy standard,

Quality Manager

CO. LTD TESTING CENTER GLOBAL VIETYAM ALUMINUM тинн ином толи сли унетиам TRUNG TÂM KIÊM NGHÎÊM CÔNG TY

01.0> 26/02/2018 20.0> 282.82 610.0

IV

EVCH LOTAL

Other

Remark:

Lyee ful

SPECIFICATION: PURCHASE MATERIAL: 606 T6/T651/T6510/T6511/T62 ALUMINUM BAR O

OQ.A-225/8 OR AMS-QQ.A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ.A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

M6061T6B T.TTT | X | WW.WWW

PART NUMBER:

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

0

DESIGN
DRAWN
CHECKED
MFG. APPR. APPROVED REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) NEW ISSUE DESCRIPTION DART AEROSPACE LID
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B
SHE ВҮ CP DS REV. B SHEET 1 OF 1 SCALE DATE 01.06.08 09.07.13 >

REV.

DE APPR.

6061-T6 BAR

09.07.13

0

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SIGNED OFF BY:							INSPECTED BY:		
F (if required)	INC SICNOE	ENGINEER				No.	C 18 INSPECTION		
		ā	he Quality Offic	ocated in t	sters l				
						16	ARDNESS / DUROMETER READIN		
						1	YPE OF MATERIAL IZE OF TEST SAMPLE		
WEBSTER	ם אחם	A AUG	НКВ	нвс	-		11103111110		
	SS CHECK.		ND PREFORM				CUT SAMPLE PIECE		
		<u> </u>			(N)	٨	DOES THIS REQUIRE AN EXTRUSION REPORT		
		6			N,	人	ENGINEERING SIGN OFF		
					<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		DOES THIS MATERIAL REQUIRE		
					N	(3)	CORRECT M# ON THE MATERIAL		
		har	081 7XS	·) H	N		CORRECT REF # TO LINK CERT ORRECT MATERIAL IDENTFICATION		
-		PIC	001715	211	N	X	PHOTO REQUIRED		
					N	0	CORRECT THICKNESS		
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	202420	20.50.002.000			N	人	СОККОЅІОИ		
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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:3TAQ

CERTIFIED INSPECTION REPORT

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

3492108 Ship Date 2018-05-03 B.L. No. 11728360 Customer 00000 Invoice No. 1001004407-1 Arconic No. Ship From: Arconic Item RIVERDALE, IA. DPE-04407-1

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of felse, ficilious, or otherwise fraudulent statements or entries on this certificate by any recipiont may be punished as a felony under applicable law.

Per: We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

P.O. No./Govt Contract No. U10844 Ln#: 1

Terrence Thom Quality Assurance Manager Luthe

Nandu Srinivasan Manufacturing Director - Davenport & Satellites

S. Naw Ast

Page 1 of 2

Item Description
0.04 'IN TK (+0.0000 -.0035) X 48.0 'IN W (+.125 0.04 'IN TK (+0.0000 -.0035) X 144.0 'IN LN (+.15625 -.15625) CAT D 126862 (N) A/T 6061125) X 144.0 'IN LN (+.15625 -.15625) CAT D 126862 (N) A/T 6061T6 FLAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED AMSTOZY REV N ANSIH35.2 REV 2017 EXC_MRK ASME-SB209 REV 15 EXC_MRK ASTMB209 REV 14
((MARKED)) KRAFT PAPER INTERLEADED ((MARKED)) KRĀFT PAPER INTERLEAVED MAX GROSS SKID WGT: 4750 LB QUAN TOL +/-10 % CQR D126862 REV 44 CUST REQ 18-05-01 *** W/E 18-08-04 ***

Num Package Ticket Lot 463231 Weight 3908 Quantity MOD Inspector Clock Numbers 27887 46940

CQR: D126862.44 -Specification Limits

Tmpr Dir Long Transv. 42.0 KSI TYS 35.0 EL4D PCT 10

Alloy 6061 Lot: 463231 Chemical Composition Dir Mechanical, Physical, Metallography, Quantometer Results
No->
UTS
TYS
EL4D
TYS
TYS
TYS
Test
KSI
KSI
PCT
SV. 10
48.8
41
12 Max SI FE CU MN MG CR ZN TI Each 0.8 0.7 0.40 0.15 1.2 0.35 0.25 0.15 0.05 0.40 0.15 0.8 0.04 Other Other 0.15 Total Aluminum REMAIN

Max Min

1997-08-01. Notes for CQR: D126862.44 PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED

Long Transv.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

2018-05-03 11728360 Invoice No. 1001004407-1 Arconic No. Item DPE-04407-1

3492108 Ship Date

P.O. No./Govt Contract No. Ul0844 Ln#: 1

Customer

Arconic Item

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Per: Nandu Srinivasan Manufacturing Director - Davenport & Satellites S. Nawat Terrence Thom Quality Assurance Manager E Alle

Page 2 of 2

Cast Number H9451082 Lot: 463231 Chemical - OES Actuals - Mechanical, Physical, Metallograpy, Quantometer Results (cont.) ----49.3 41.5 12
49.1 41 12.4
49.2 41.5 12.1
48.7 40.8 12.1
48.8 40.8 12.3
48.8 40.8 12.3
48.8 40.8 12.3
48.8 40.8 12.5
48.8 40.6 12.5
48.6 40.5 12.5 SI 0.60 FE 0.4 CU 0.22 MN 0.05 MG 1.0 CR 0.16 ZN 0.04 TI Other Each Other Total 0.04 < 0.05 < 0.15

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

O

PURCHASE MATERIAL 6061-T6T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION:

0

M6061T6S|.XXX| X|W.WWW QQ-A-250/11 OR AMS-QQ-A-250/11 GR AMS 4025 OR 4027 OR ASTM B209 WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

0

PART NUMBER:

EG. 0.063" THICK SHEET = M6061T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

XXX BY 4FT BY 8FT FOR SHEET

0

PREFERRED SIZE:

L

APPROVED CHECKED MFG, APPR. APPROVED DATE DESIGN DE APPR 17.12.13 REFORMAT DWG, ADD 8209 SPEC (ZN D8-1). REF PAR 08-020A ADD PLATE AND 1851 SPEC DS DART AEROSPACE LTD

ML HAWKESBURY, ONTARIO, CANADA

NO DRAWING NO.
JFS M6061T6S

HS TITLE SO.
CP 4/7 6061-T6 SHEET/PLATE SPEC N COPYRIGHT 2001 BY DART AEROSPACE LTD

CAME SHOULD AN OWNER AND WAS A SHOULD BE ARROUND A WAS A SHOULD BE ARROUND A WAS A SHOULD BE ARROUND AS A SHOULD BE A SHOULD BE ARROUND AS A SHOULD BE ARROUND AS A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE A SHOULD BE AS A SHOULD BE A SHOU BY RF ç M SHEET 1 OF 1 01.06.08 17.12.13 09.07.13 DATE

REV. C SCALE

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			ULTS BELOW						
	SS CHECK.	SANDAAH A N	ND PREFORM	A JAIRE	TAM	OE	SOT SAMPLE PIECE		
					(N)	人	EXTRUSION REPORT		
							DOES THIS REQUIRE AN		
					(N)	Y	ENGINEERING SIGN OFF		
							DOES THIS MATERIAL REQUIRE		
					N	(W)	CORRECT M# ON THE MATERIAL		
				0	N	(Y)	ORRECT MATERIAL IDENTFICATION		
			hbh 9900	1:14	N		CORRECT REF # TO LINK CERT		
					(1)	1	РНОТО ВЕQUIRED		
					N	(1)	CORRECT THICKNESS		
	1000		Ltop	SWY	N	(2)	CORRECT MATERIAL PER M-DRAWING		
					N	W	CORRECT GRAIN DIRECTION		
	×	Value in		1100	(M)		CORROSION		
	500.5				N	(Y)	COKRECT FINISH		
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					1	VX ,			
	S.	COMMENT				(CP	DESCRIPTION		
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	3ED: 07/15	T SIZE ORDER	SHEE	0)			QUANTITY INSPECTED: 06 5 5		
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							MATERIAL CERT REC'D:		
1	,, <i>º</i> ,⊁⁻⊘ :a∃১	KNESS OKDEK	IJIHI				MATERIAL CERT PECID.		
						7	DATE: 18/08/0		
6L46605/L1	:ON	PO / BATCH		(OPO_23JT130JM :JAIRETAM				
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		0.	1990 14:10:10 041	ai botocol ere,	
					HARDNESS / DUROMETER READING
					SIZE OF TEST SAMPLE
					JAIABTAM 90 B9YT
WEBSTER	DUR D	A AUG	HRB	НВС	
		٨	ULTS BELOW	CORD RES	BB
	SS CHECK.	SANUHAH A N	ND PREFORI	A JAINETAN	CUT SAMPLE PIECE OF N

testers located in the Quality Office

:3TAQ	(0/80/8)	:BTAG
SIGNED OEE BA:	W	INSPECTED BY:
ENGINEÈRING SICNOFF (if required)		QC 18 INSPECTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

CERTIFIED INSPECTION REPORT We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet. 2018-06-05

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Per:

P.O. No./Govt Contract No. U10855 Ln#: 1

> Customer 00000 Invoice No.

Arconic Item

B.L. No. 11762884

Arconic No. 1001007635-1

Item

DPE-07635-1

Ship From:

RIVERDALE, IA.

S. Nawhet

Nandu Srinivasan Manufacturing Director - Davenport & Saleililes

Terrence Thom Quality Assurance Manager THE Y

Page 1 of 2

Item Description
0.08 IN TK (+0.0000 -.0045) X 48.0 IN W (+.125 1.25) X 144.0 IN LN (+.15625 -.15625) CAT D 126901 (N) A/T 6061T6 FLAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED. AMS4027/REV N ANSH35.2 REV 2017 EXC_MRK ASME-SB209 REV 15 EXC_MRK ASTWB209 REV 14
((WARKED)) KKAFT PAPER INTERLEAVED
MAX GROSS SKID WGT: 4750 LB QUAN TOL +/25 % CQR D126901 REV 47 CUST REQ 18-0501 *** W/E 18-08-04 ***

Num Package Ticket Lot 369933 13589% Weight 3902 Quantity 75 MOM PC 47397 27908 Inspector Clock Numbers

Notes for CQR: D126901.47
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED 1997-08-01.

CQR: D126901.47 -Specification Limits --

Long Transv. 42.0 TYS KSI 35.0 EL4D PCT

Tmpr

Alloy 6061 Lot: 369933 Chemical Composition Dir Long Transv. Mechanical, Physical, Metallography, Quantometer Results No-> Test SI FE CU MN MG CR ZN TI Each Total 0.8 0.7 0.40 0.15 1.2 0.35 0.25 0.15 0.05 0.15 0.40 0.15 0.8 0.04 √ KSI √ 47.6 KSI 40.4 PCT √ 13.7 EL4D Other Other Aluminum REMAIN



3519110 Ship Date 2018-06-05

B.L. No. 11762884

P.O. No./Govt Contract No. U10855 Ln#: 1

> Customer 00000 Invoice No.

Arconic Item

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

Arconic No. 1001007635-1

Item

DPE-07635-1

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

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Per:

Terrence Thom Quality Assurance Manager The the

Nandu Srinivasan Manufacturing Director - Davenport & Satellites S. Now Mit

Page 2 of 2

Lot: Cast Number 18P0104011 369933 Chemical - OES Actuals SI $\sqrt{\text{FE}}$ CU $\sqrt{\text{MN}}$ $\sqrt{\text{MG}}$ $\sqrt{\text{CR}}$ $\sqrt{\text{ZN}}$ $\sqrt{\text{TI}}$ Other Each Other Total 0.63 0.5 0.24 0.01 0.9 0.16 0.01 0.06 < 0.05 < 0.15

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

CERTIFIED INSPECTION REPORT

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA

3507369 Ship Date B.L. No. 11745765 00000 Invoice No. 1000993214-2 Arconic No. Item DPE-93214-2

P.O. No./Govt Contract No. Customer

Arconic Item

2018-05-22 C75485 Ln#: 2

This test report shall not be reproduced except in full, without the written approval of the Quality Department, No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictilitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a falony under applicable taw.

Per:

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Terrence Thom Quality Assurance Manager time the the

Manufacturing Director - Davenport & Satellites

S. Now Mit

Page 1 of 2

((MARKED)) KRÄFT PAPER INTERLEAVED
MAX GROSS SKID WGT: 4750 LB QUAN TOL +/25 % CQR D126901 REV 47 CUST REQ 18-04-Item Description
0.08*IN TK (+0.0000 -.0045) X 48.0 IN W (+.125 125) X 144.0*IN IN (+.15625 -.15625) CAT D 126901 (N) A/T 6061T6*FLAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED. (AMS4027*REV N ANSIH35.2 REV 2017 EXC_MRK ASME-SB209 REV 15 EXC_MRK ASTMB209*REV 14 *** W/E 18-04-07 ***

Num 476276 Package Ticket Lot (13/17/4 369933 3918 Weight 75 Quantity MON PC Inspector Clock Numbers 47397 27908

Notes for CQR: D126901.47
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED 1997-08-01.

Tmpr Dir Long Transv. Max Min 42.0 WSI KSI TYS 35.0 EL4D PCT

CQR: D126901.47 -Specification Limits

rdmpr Alloy 6061 Lot: 369933 Chemical Composition Dir Long Transv. Mechanical, Physical, Metallography, Quantometer Results No-> Test SI FE CU MN MG CR ZN TI Each 0.8 0.7 0.40 0.15 1.2 0.35 0.25 0.15 0.05 0.40 0.15 0.8 0.04 UTS KSI 47.6 \ \ 40.4 PCT 13.7 Other Other 0.15 Total Aluminum REMAIN



. R

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From:

3507369 Ship Date B.L. No. 11745765 Invoice No. Arconic No. II Item RIVERDALE, IA. DPE-93214-2

2018-05-22 P.O. No./Govt Contract No. Customer 00000

Arconic Item

C75485 Ln#: 2

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Per:

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Page 2 of 2

Terrence Thom Quality Assurance Manage Court Miles

Nandu Srinivasan Manufacturing Director - Davenport & Satellites S. Nachst

Cast Number			,								Lot: 369933
К											9933
Chemical - OES											 Mechanical,
HA IS	47.6	47.5	47.5	47.5	47.6	47.5	47.5	47.5	48.1	48.1	Physical,
G	6	'n	ហ	'n	6	G	S	U	٢	٢	Metall
N	40.4	40.2	40.2	40	40.1	40	40	40	40.5	40.5	ograpy,
MG CR ZN TI	13.7	13.7	13.5	13.7	13.9	13.7	13.8	13.6	13.9	13.8	Quantometer Results
Other											(cont.)
SI FE CU MN MG CR ZN TI Other Each Other Total											- Mechanical, Physical, Metallograpy, Quantometer Results (cont.)

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

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O

PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION:

0

OG-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR 4027 OR ASTM B209

0

0

PART NUMBER:

M6061T6S XXX X W.WWW

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

0

PREFERRED SIZE:

XXX BY 4FT BY 8FT FOR SHEET

72

APPROVED DESIGN DRAWN CHECKED MFG, APPR. DE APPR. APPROVED REV. ADD PLATE AND T851 SPEC REFORMAT DWG, ADD B209 SPEC (ZN D8-1). REF PAR 08-020A 17.12.13 DS HANYKESBURY, ONTARIO, CANADA NO DRAWING NO.

JFS M6061T6S SHEET 1 OF 1

HS TITLE SCALE
CP 47 6061-T6 SHEET/PLATE SPEC NTS DESCRIPTION COPYRIGHT © 2001 BY DART AEROSPACE LTD

AND HEART AN ORDERONAL AND WHITE THE HEART AEROSPACE ARE ARRESTED AND AREA OF THE ARREST ARE ARRESTED AND ARREST AREA AREA. THE ARREST AREA AREA. THE ARREST AREA. THE AREA. THE AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE AREA. THE AREA. THE ARREST AREA. THE ARREST AREA. THE ARREST AREA. THE AR 왕 Ç 01.06.08 17.12.13 09.07.13 DATE

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	121						SIZE OF TEST SAMPLE		
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WEBSTER	a Ana	A AUG	HRB	HBC					
	22 CHECK		ND PREFORI				COT SAMPLE PIECE		
		4018901182	23-99		(A)	Х	DOES THIS REQUIRE AN EXTRUSION REPORT		
					N	٨	DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF		
			<u> </u>		N	A	CORRECT M# ON THE MATERIAL		
<u> </u>					N	8	ORRECT MATERIAL IDENTFICATION		
		HILITE O	5th856	O:ZU	N	ã	CORRECT REF # TO LINK CERT		
				/ 1	N)	X	PHOTO REQUIRED		
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					-	L	<u>0/30/8)</u> :3TAQ		
0825595/61	NO.: POST CON	PO / BATCH			080-	591	MATERIAL: M 606/		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:3TAQ

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY:

29/89/8/

:3TAQ

INSPECTED BY:

OC 18 INSPECTION

CERTIFICATE OF ANALYSE

4J II legis nward noinU

1350 Burlington Sireet East, P.O. Box 98 Hamilton, Ontario, Canada L8N 3A2 Phone: (905) 547-4480; Fax: (905) 544-3852

NO DETAMILE 261333-00

77966 B

NO. DE LA COMMANDE DU CLIENT

01/27/17

PRODUCT DESCRIPTION
PRODUIT DESCRIPTION

BIAG

BILL OF LADING

BON DE CONNAISSEMENT

LOUR ITEM # : V712412

ET0358343

3/4 RD

76 7

RD (1144) 20/22 FT

COLD FINISHED STEEL BARS CARBON
COLD DRAWN & STRESS RELIEF ANNEALED
"CENTURY" ASTM A311 CLASS B
STANDARD AISI TOLERANCES
C.40\.48 MN 1.35\1.65 P.040MAX S.24\.33
TRANSPORT BY TRUCK - PROTECT WITH TARR

C.40/.48 MN 1.35/1.65 P.040MAX S.24/.33 TRANSPORT BY TRUCK - PROTECT WITH TARP CHEMICAL & MECHANICAL TEST REPORT REQUIRED ASTM A108

COUNTRY OF ORIGIN - CANADA HOT ROLL SOURCE : ARCELORMITTAL NAFTA CERTIFIED YES: X NO:

NA FTA CERTIFIED YES: X NO:

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HECOHDROCE THE COMPANY.

WITH SPECIFICATION, AND THAT THE RESULTS ARE CORRECT AS CONTAINED IN .

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HAS BEEN TESTED IN ACCORDA

HESPATES HOUS CENTIFIONS OUE LA MANDERS BONT CORRECTS. CO ONFORMEMENT ALM SPECIFICATIONS ET QUE LES RESOLTARS SONT CORRECTS. CO NO WELDING OR WELD REPAIR PERFORMED ON THIS MATERIAL. THIS MATERIAL WAS NOT EXPOSED TO MERCURY DURING PROCESSING OR WHILE IN OUR POSSESSION.

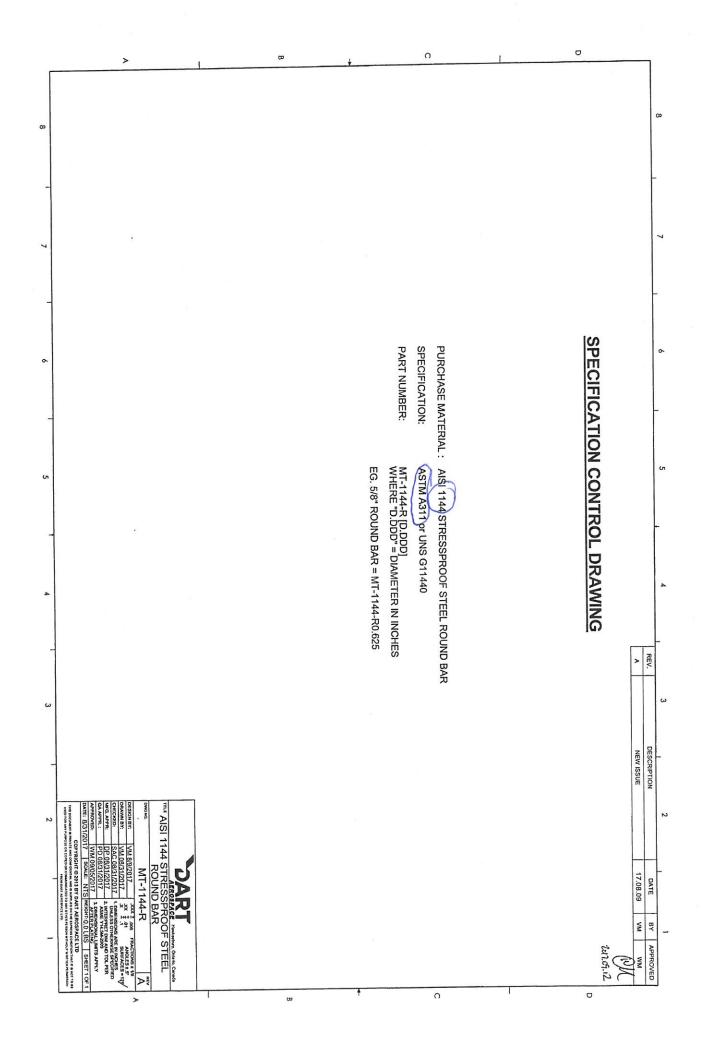
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SONIC TEST

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TEST

DAM



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	-		1194012	-24	N	a	CORRECT REF # TO LINK CERT		
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02750 PO/BATCH NO.: (2040517/50980							1-2W :7	AIRITAM	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in